

HWLVR07	1024915	605	687 - 328	2780	Lys-28 to Thr-33, Asn-35 to Lys-53, Ala-98 to Glu-104.			
HOPKF60	1025047	606	1132 - 197	2781	Glu-41 to Lys-46, Ser-49 to Glu-55, Asp-109 to Arg-114, His-133 to Asp-138, Arg-170 to Glu-181, Ala-246 to Pro-254, Lys-282 to Ser-287, Ala-296 to Asp-302.	S0358: 10, H0584: 9, S0420: 8, L0439: 8, H0543: 8, H0250: 7, H0618: 7, L0601: 7, S0046: 6, H0424: 6, H0251: 5, H0046: 5, L0438: 5, H0435: 5, H0136: 5, S0045: 4, H0599: 4, H0494: 4, H0561: 4, H0547: 4, H0539: 4, L0748: 4, L0751: 4, S0212: 3, S0007: 3, H0486: 3, H0706: 3, H0253: 3, H0545: 3, S0036: 3, H0040: 3, H0551: 3, H0264: 3, H0132: 3, H0529: 3, H0144: 3, H0520: 3, H0448: 3, H0445: 3, H0665: 3, H0423: 3, H0677: 3, H0624: 2, S0040: 2, H0341: 2, H0484: 2, H0125: 2, S0360: 2, S0222: 2, H0586: 2, H0497: 2, H0575: 2, H0318: 2, H0052: 2,		

H0059: 2, T0042: 2, S0440: 2, H0641: 2, S0210: 2, S0002: 2, S0126: 2, H0689: 2, H0666: 2, H0521: 2, S0027: 2, L0752: 2, S0434: 2, H0422: 2, S0042: 2, S0424: 2, H0170: 1, H0171: 1, H0556: 1, T0002: 1, H0218: 1, H0161: 1, H0686: 1, S0342: 1, H0716: 1, H0295: 1, H0294: 1, H0656: 1, H0483: 1, H0661: 1, H0458: 1, H0638: 1, H0192: 1, S0356: 1, S0442: 1, S0376: 1, S0444: 1, H0675: 1, H0580: 1, S0468: 1, H0208: 1, H0393: 1, L0717: 1, S0278: 1, H0261: 1, H0550: 1, S6014: 1, H0370: 1, H0592: 1, H0333: 1, H0559: 1, H0256: 1, H0485: 1, T0040: 1, L0586: 1, H0069: 1, H0075: 1, H0042: 1, H0581: 1, H0121: 1,
--

	H0041: 1, H0123: 1, H0050: 1, H0012: 1, H0620: 1, H0014: 1, L0163: 1, H0051: 1, S0051: 1, T0010: 1, H0083: 1, H0266: 1, H0179: 1, H0271: 1, H0292: 1, H0286: 1, S0022: 1, H0039: 1, H0553: 1, H0628: 1, H0617: 1, H0383: 1, H0598: 1, H0135: 1, H0087: 1, H0380: 1, H0412: 1, H0413: 1, H0056: 1, H0100: 1, T0041: 1, S0015: 1, H0625: 1, S0464: 1, S0294: 1, S0438: 1, H0509: 1, H0130: 1, H0646: 1, H0652: 1, S0344: 1, S0374: 1, L0565: 1, T0068: 1, H0693: 1, H0519: 1, H0593: 1, H0684: 1, H0658: 1, H0670: 1, H0660: 1, H0518: 1, S0332: 1, H0522: 1, H0694: 1, H0555: 1, H0479: 1, H0447: 1, H0626: 1, S3014: 1,	
--	--	--

HBDAD74	1025102	607	2 - 406	2782	Gly-22 to Glu-28, Glu-42 to Arg-60, Leu-67 to Glu-89, Asp-106 to Thr-118, Gln-120 to Ile-130.	S0028: 1, L0743: 1, L0744: 1, L0754: 1, L0745: 1, L0747: 1, L0755: 1, L0757: 1, L0759: 1, H0595: 1, L0596: 1, L0592: 1, L0608: 1, L0593: 1, H0668: 1, H0653: 1, H0542: 1, H0506: 1 and H0352: 1. L0766: 7, L0803: 4, L0779: 3, H0421: 2, H0615: 2, L0382: 2, L0748: 2, L0777: 2, L0002: 1, S0116: 1, H0638: 1, S0358: 1, H0393: 1, S6022: 1, H0431: 1, H0586: 1, H0486: 1, H0427: 1, S0474: 1, H0327: 1, H0057: 1, H0428: 1, S0036: 1, L0351: 1, H0538: 1, L0638: 1, L0667: 1, L0653: 1, L0659: 1, L0809: 1, H0693: 1, L0438: 1, H0547: 1, S0146: 1, H0626: 1, L0746: 1, L0756: 1, L0752: 1, L0731: 1, L0758: 1,		
---------	---------	-----	---------	------	---	---	--	--

HPCTY12	1025231	608	68 - 1225	2783	Ala-1 to Ser-8.	S0308: 1, H0595: 1, L0596: 1 and L0599: 1. L0805: 3, H0657: 2, L0769: 2, L0766: 2, L0659: 2, L0809: 2, L0789: 2, L0665: 2, L0565: 2, H0659: 2, L0749: 2, L0777: 2, L0755: 2, L0596: 2, H0685: 1, H0583: 1, H0650: 1, H0656: 1, H0663: 1, S0420: 1, S0356: 1, H0619: 1, L0717: 1, H0586: 1, H0251: 1, H0050: 1, H0622: 1, H0135: 1, H0038: 1, H0551: 1, H0272: 1, H0561: 1, H0509: 1, L0637: 1, L0646: 1, L0794: 1, L0387: 1, L0776: 1, L0655: 1, L0657: 1, L0636: 1, L0666: 1, L0664: 1, H0520: 1, H0547: 1, H0519: 1, H0672: 1, L0593: 1, H0667: 1 and H0352: 1.	12q12-q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
HFASF12	1025327	609	103 - 201	2784	Pro-19 to Cys-28.	L0747: 4, L0757: 4, L0759: 4, L0770: 3, L0769: 2, L0659: 2,		

HLJBM71	1025359	610	147 - 617	2785	Ser-26 to Ile-35.	H0691: 2, L0750: 2, S0116: 1, H0638: 1, S0300: 1, H0587: 1, L0021: 1, S0474: 1, H0529: 1, L0762: 1, L0764: 1, L0768: 1, L0775: 1, L0776: 1, L0634: 1, L0783: 1, L0663: 1, H0689: 1, H0521: 1, S0027: 1, L0748: 1, L0777: 1, L0752: 1, L0755: 1, L0731: 1, H0445: 1 and H0423: 1.	H0556: 4, H0253: 4, H0620: 4, L0731: 3, S0212: 2, H0052: 2, H0124: 2, L0766: 2, L0809: 2, L0565: 2, S0126: 2, S0328: 2, L0603: 2, H0739: 1, S0114: 1, S0218: 1, H0657: 1, S0116: 1, H0638: 1, S0420: 1, S0045: 1, S0046: 1, S0278: 1, H0549: 1, H0550: 1, H0250: 1, H0156: 1, L0738: 1, H0327: 1, H0544: 1, L0471: 1, H0083: 1,		
---------	---------	-----	-----------	------	-------------------	---	--	--	--

HNOKW27	1025366	611	3 - 701	2786	Phe-9 to Trp-14, Arg-125 to Asp-148, Ser-156 to Asp-163, Pro-206 to His-211	H0355: 1, H0416: 1, H0428: 1, L0483: 1, H0181: 1, H0617: 1, H0032: 1, S0364: 1, H0063: 1, H0087: 1, H0264: 1, H0100: 1, H0494: 1, H0560: 1, L0065: 1, H0132: 1, H0131: 1, S0150: 1, H0647: 1, L0770: 1, L0769: 1, L0772: 1, L0764: 1, L0662: 1, L0387: 1, L0657: 1, L0658: 1, L0541: 1, S0052: 1, H0547: 1, H0539: 1, S0406: 1, H0478: 1, H0727: 1, H0732: 1, S0032: 1, L0439: 1, L0740: 1, L0747: 1, L0779: 1, L0755: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, S0436: 1, L0581: 1, L0595: 1, H0665: 1, H0423: 1 and S0446: 1.		
---------	---------	-----	---------	------	--	---	--	--

HPFDG48	1025526	612	461 - 303	2787		AR089: 2, AR039: 2, AR104: 2, AR053: 2, AR096: 2, AR060: 1, AR033: 1, AR061: 1, AR055: 1 L0748: 6, H0169: 1, S0428: 1, S0136: 1, L0754: 1 and L0749: 1.	Xp11.23- p11.22	300008, 300008, 300008, 300008, 300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
HVVB24	1025712	613	49 - 1296	2788	Ser-1 to Gly-18, Trp-25 to Gly-31, Arg-46 to Ser-52, Ala-103 to Ala-108, Ser-154 to Gly-165, Gln-228 to Pro-236, Ser-284 to Gly-291, Ala-321 to Asp-327, Lys-377 to Asn-394, Asp-406 to Ser-416.	AR089: 13, AR060: 5, AR096: 5, AR104: 5, AR061: 2, AR055: 1 S0152: 12, S0356: 10, H0551: 6, H0423: 6, S0212: 5, H0090: 5, H0667: 5, S0358: 4, H0620: 4, H0622: 4, H0591: 4, L0794: 4, S0380: 4, L0731: 4, L0588: 4, S0242: 4, S0360: 3, S0474: 3, H0581: 3, S0126: 3,		

		H0436: 3, S0028: 3, L0756: 3, H0445: 3, S0192: 3, S0196: 3, H0656: 2, S0116: 2, S0442: 2, S0376: 2, S0046: 2, H0549: 2, H0098: 2, H0014: 2, S0003: 2, H0560: 2, H0641: 2, H0529: 2, L0766: 2, H0520: 2, H0519: 2, H0666: 2, L0602: 2, H0478: 2, L0740: 2, L0751: 2, L0754: 2, S0434: 2, L0595: 2, H0542: 2, H0543: 2, H0624: 1, H0170: 1, S0040: 1, S0402: 1, S0134: 1, H0341: 1, H0661: 1, H0663: 1, H0449: 1, H0638: 1, S0045: 1, S0140: 1, L0717: 1, H0411: 1, S0222: 1, H0497: 1, H0486: 1, T0040: 1, H0244: 1, H0427: 1, H0004: 1, H0596: 1, H0566: 1, L0163: 1, H0051: 1, S0051: 1, T0079: 1, H0375: 1, H0060: 1,				
--	--	--	--	--	--	--

HE8UF88	1025745	614	4207 -	2789	Ala-8 to Arg-14,	S0250: 1, H0615: 1, H0029: 1, H0553: 1, H0644: 1, H0032: 1, H0169: 1, H0316: 1, H0038: 1, H0040: 1, H0634: 1, H0063: 1, T0067: 1, H0477: 1, H0488: 1, H0623: 1, H0494: 1, H0625: 1, L0065: 1, S0438: 1, H0509: 1, S0142: 1, L0770: 1, L0646: 1, L0662: 1, L0653: 1, L0776: 1, L0659: 1, L0526: 1, L0666: 1, S0374: 1, H0693: 1, H0547: 1, H0682: 1, H0435: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0710: 1, H0518: 1, H0579: 1, H0704: 1, H0555: 1, S0390: 1, S0037: 1, S0027: 1, L0439: 1, L0747: 1, L0752: 1, L0759: 1, H0444: 1, H0595: 1, L0362: 1, S0011: 1, S0194: 1 and S0384: 1.		
						H0547: 10, H0013: 9,		

			2810	Ile-64 to Thr-69, Val-94 to Asp-101, His-112 to Gln-117, Tyr-139 to Glu-145, Tyr-195 to Cys-208, Gly-216 to Gly-223, Asp-297 to Ser-307, Gly-378 to Leu-383, Ile-391 to Pro-404, Asn-451 to Ser-466.	L0758: 8, L0771: 6, L0747: 6, S0422: 5, L0770: 5, H0341: 4, S0356: 4, H0486: 4, H0251: 4, H0038: 4, H0040: 4, T0041: 4, L0766: 4, S0152: 4, L0439: 4, H0171: 3, S0360: 3, S0046: 3, H0574: 3, H0024: 3, T0042: 3, S0440: 3, H0529: 3, H0670: 3, S0330: 3, H0539: 3, L0754: 3, L0749: 3, L0779: 3, H0624: 2, S0134: 2, H0583: 2, H0657: 2, S0116: 2, S0418: 2, S0354: 2, S0045: 2, H0318: 2, T0110: 2, H0046: 2, H0266: 2, S0003: 2, H0591: 2, H0634: 2, H0412: 2, H0561: 2, L0768: 2, L0806: 2, L0664: 2, H0144: 2, L0565: 2, H0519: 2, H0659: 2, H0672: 2, S0328: 2, S0378: 2, H0521: 2, H0696: 2, H0345: 2, L0741: 2,
--	--	--	------	---	--

	L0743: 2, L0748: 2, L0751: 2, L0759: 2, L0593: 2, L0595: 2, H0667: 2, H0136: 2, H0423: 2, H0556: 1, S6024: 1, H0661: 1, H0663: 1, S0444: 1, S0278: 1, H0592: 1, H0587: 1, H0497: 1, H0333: 1, H0492: 1, H0427: 1, S0280: 1, H0575: 1, S0474: 1, H0596: 1, H0546: 1, H0123: 1, H0050: 1, L0471: 1, H0373: 1, L0163: 1, H0051: 1, H0083: 1, H0687: 1, H0328: 1, H0688: 1, H0622: 1, T0006: 1, H0169: 1, H0674: 1, H0708: 1, H0598: 1, H0616: 1, H0268: 1, H0623: 1, H0100: 1, L0475: 1, S0438: 1, S0150: 1, H0646: 1, L0369: 1, L0763: 1, L0638: 1, L0646: 1, L0773: 1, L0521: 1, L0662: 1, L0794: 1, L0522: 1, L0803: 1,					
--	--	--	--	--	--	--

						L0774: 1, L0775: 1, L0776: 1, L0655: 1, L0527: 1, L0558: 1, L0659: 1, L0526: 1, L0789: 1, L0666: 1, H0520: 1, H0689: 1, H0690: 1, H0683: 1, H0660: 1, H0648: 1, S0380: 1, S0406: 1, H0478: 1, H0626: 1, S0027: 1, S0028: 1, L0740: 1, L0786: 1, L0757: 1, S0434: 1, L0596: 1, L0592: 1, S0026: 1, H0542: 1, H0543: 1, S0412: 1, S0424: 1, S0384: 1, S0456: 1 and L0600: 1.			
HOUBC29	1025749	615	1558 - 1259	2790	Leu-11 to Gly-22, Ala-87 to Gly-96.	L0748: 2, L0745: 2, S0040: 1, H0637: 1, H0580: 1, H0553: 1 and L0761: 1.			
HOCPY47	1025965	616	71 - 1606	2791		L0758: 9, S0412: 8, L0749: 6, S0360: 5, H0038: 5, L0662: 5, L0751: 5, S0356: 3, H0618: 3, S0051: 3, H0616: 3, L0666: 3, L0743: 3, L0439: 3, L0731: 3, H0295: 2,			

[illegible]

HOVKE20	1025990	617	3 - 824	2792	Gln-52 to Thr-58, Pro-105 to Asp-111, Arg-175 to Cys-182, Leu-221 to Val-227, Thr-257 to Gly-264, Ser-266 to Glu-271.	L0657: 1, L0544: 1, L0647: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, H0521: 1, H0696: 1, H0555: 1, H0478: 1, S0037: 1, S0027: 1, L0756: 1, L0777: 1, L0753: 1, H0445: 1, L0596: 1, L0591: 1, S0026: 1 and S0446: 1.			L0657: 1, L0544: 1, L0647: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, H0521: 1, H0696: 1, H0555: 1, H0478: 1, S0037: 1, S0027: 1, L0756: 1, L0777: 1, L0753: 1, H0445: 1, L0596: 1, L0591: 1, S0026: 1 and S0446: 1.	601011, 601011, 601011, 601011, 601768, 601843
---------	---------	-----	---------	------	--	--	--	--	--	---

HODGH47	1026139	618	398 - 1024	2793			H0492: 1, T0040: 1, H0505: 1, H0545: 1, H0150: 1, H0086: 1, H0123: 1, H0023: 1, H0024: 1, H0014: 1, H0051: 1, H0028: 1, H0615: 1, H0688: 1, H0424: 1, H0031: 1, H0617: 1, H0059: 1, H0494: 1, H0538: 1, L0769: 1, L0637: 1, L0667: 1, L0772: 1, L0804: 1, L0806: 1, L0526: 1, L0809: 1, S0330: 1, S0454: 1, S0027: 1, S0028: 1, L0741: 1, L0740: 1, L0747: 1, L0752: 1, L0757: 1, H0665: 1, S0042: 1 and H0506: 1. H0666: 13, H0620: 7, L0731: 7, L0747: 6, L0659: 5, L0740: 5, L0750: 5, L0757: 5, S0360: 4, H0123: 4, S0022: 4, H0135: 4, L0666: 4, L0665: 4, S0028: 4, L0748: 4, L0777: 4, L0588: 4, S0420: 3, S0358: 3,		
---------	---------	-----	------------	------	--	--	--	--	--

	H0208: 3, H0545: 3, H0046: 3, H0284: 3, L0650: 3, L0375: 3, L0382: 3, H0352: 3, H0592: 2, H0544: 2, H0024: 2, H0266: 2, H0286: 2, H0252: 2, H0615: 2, H0428: 2, H0628: 2, H0551: 2, H0100: 2, S0210: 2, L0763: 2, L0770: 2, L0774: 2, L0661: 2, L0518: 2, H0547: 2, H0670: 2, S0037: 2, L0751: 2, L0752: 2, L0755: 2, L0758: 2, L0601: 2, S0194: 2, H0170: 1, H0265: 1, H0686: 1, S0040: 1, H0295: 1, H0341: 1, H0638: 1, S0444: 1, H0580: 1, H0329: 1, S0468: 1, S0046: 1, S0132: 1, S0476: 1, H0619: 1, H0645: 1, L0717: 1, S0278: 1, H0550: 1, H0586: 1, H0333: 1, L0021: 1, H0575: 1, H0253: 1, H0052: 1, H0150: 1,	
--	--	--

							H0041: 1, H0563: 1, H0081: 1, H0050: 1, L0163: 1, H0051: 1, H0688: 1, H0040: 1, H0634: 1, H0272: 1, H0334: 1, H0633: 1, H0646: 1, L0772: 1, L0800: 1, L0643: 1, L0764: 1, L0662: 1, L0767: 1, L0775: 1, L0651: 1, L0806: 1, L0805: 1, L0776: 1, L0656: 1, L0783: 1, L0809: 1, L0543: 1, L0789: 1, L0663: 1, H0682: 1, H0684: 1, H0659: 1, H0660: 1, H0709: 1, S0152: 1, H0436: 1, H0627: 1, L0611: 1, S0027: 1, L0439: 1, L0745: 1, L0759: 1, L0593: 1, L0361: 1, L0603: 1, H0668: 1, S0026: 1 and H0667: 1.			
HODBK27	1026372	619	87 - 497	2794			H0328: 2, H0656: 1 and H0538: 1.			
HE8CH59	1026805	620	1889 - 2770	2795	Tyr-1 to Pro-8, Asp-21 to Lys-28, Arg-30 to Ile-38.		H0583: 2, L0744: 2, L0747: 2, H0650: 1, H0656: 1, S0356: 1.			

						Asn-71 to Gln-76, Val-85 to Pro-101, Ser-104 to Arg-111, His-123 to Arg-128, Glu-146 to Arg-152, Val-155 to Asp-271, Leu-274 to Gly-279, Ser-283 to Glu-290.	H0013: 1, H0590: 1, H0581: 1, H0251: 1, H0266: 1, H0328: 1, H0615: 1, H0135: 1, H0488: 1, H0538: 1, L0521: 1, H0539: 1, H0522: 1, S0028: 1, L0366: 1 and H0677: 1.			
HSKGR52	1026911	621	2 - 625	2796		Asn-53 to Arg-58, Asp-79 to Tyr-89, Pro-98 to Pro-108, Lys-195 to Lys-200.	AR052: 91, AR096: 79, AR053: 69, AR039: 64, AR089: 46, AR060: 39, AR033: 35, AR104: 32, AR055: 14, AR061: 10 L0805: 22, L0794: 15, L0766: 12, L0747: 12, L0803: 11, L0740: 11, L0779: 11, L0776: 9, L0769: 7, H0521: 7, L0439: 7, L0731: 7, L0605: 7, S0474: 6, S0422: 6, L0752: 6, L0665: 5, L0748: 5, L0758: 5, H0618: 4, S0010: 4, L0771: 4, L0789: 4, S3014: 4, H0341: 3, H0615: 3, H0708: 3, L0763: 3, L0804: 3, L0659: 3, L0809: 3, S0052: 3,			

	L0438: 3, H0658: 3, H0436: 3, L0759: 3, S0360: 2, S0222: 2, H0574: 2, H0599: 2, H0196: 2, H0050: 2, H0266: 2, H0135: 2, H0038: 2, H0616: 2, L0770: 2, H0144: 2, S0374: 2, L0352: 2, H0682: 2, H0670: 2, L0743: 2, L0744: 2, L0751: 2, L0749: 2, L0750: 2, L0756: 2, S0424: 2, H0624: 1, T0002: 1, T0049: 1, H0657: 1, L0785: 1, H0671: 1, S0442: 1, S0444: 1, S0408: 1, H0733: 1, S0278: 1, H0431: 1, H0013: 1, S0280: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, L0040: 1, H0123: 1, L0471: 1, H0630: 1, H0375: 1, S0003: 1, H0252: 1, L0483: 1, T0006: 1, H0644: 1, H0673: 1, S0036: 1, H0163: 1,... H0040: 1, H0551: 1,	
--	---	--

HMUAQ05	1026913	622	3 - 218	2797	Pro-2 to Pro-8.	H0412: 1, H0413: 1, S0038: 1, H0509: 1, H0131: 1, S0344: 1, L0598: 1, L0369: 1, L0638: 1, L0667: 1, L0662: 1, L0363: 1, L0768: 1, L0775: 1, L0375: 1, L0806: 1, L0653: 1, L0655: 1, L0666: 1, S0126: 1, H0689: 1, H0684: 1, H0660: 1, H0672: 1, S0380: 1, H0710: 1, H0522: 1, S0146: 1, S3012: 1, S0027: 1, S0028: 1, L0745: 1, L0780: 1, L0753: 1, H0445: 1, L0362: 1, L0361: 1, H0653: 1, H0423: 1 and H0506: 1.		
						S0354: 2, H0615: 2, L0591: 2, S0356: 1, S0442: 1, S0360: 1, S0222: 1, H0362: 1, H0156: 1, H0036: 1, H0012: 1, H0014: 1, S0051: 1, T0010: 1, H0529: 1, S0126: 1, L0439: 1, L0755: 1 and L0608: 1.		

HCOMA45	1026979	623	536 - 447	2798	Glu-13 to Gly-18.	H0662: 1, S0046: 1, H0658: 1 and H0670: 1.		
HE2KI45	1027007	624	3 - 1565	2799		L0803: 12, H0581: 8, 1 S0358: 6, H0046: 6, H0428: 6, S0356: 5, S0007: 5, H0031: 4, L0665: 4, H0271: 3, H0038: 3, L0794: 3, L0804: 3, L0666: 3, H0693: 3, S0406: 3, L0756: 3, L0758: 3, L0592: 3, S0116: 2, S0444: 2, H0431: 2, H0586: 2, H0486: 2, L0471: 2, H0615: 2, H0039: 2, S0036: 2, H0616: 2, S0422: 2, H0529: 2, L0770: 2, L0521: 2, L0662: 2, L0776: 2, L0787: 2, L0438: 2, H0670: 2, H0660: 2, S0328: 2, S0330: 2, H0436: 2, L0748: 2, L0755: 2, L0485: 2, L0599: 2, S0192: 2, H0423: 2, H0624: 1, S0342: 1, S0114: 1, H0650: 1, H0657: 1, H0638: 1, S0354: 1, S0360: 1,		

[illegible]

									H0478: 1, H0627: 1, H0631: 1, S0027: 1, L0740: 1, L0747: 1, L0749: 1, L0777: 1, L0752: 1, H0445: 1, S0436: 1, L0591: 1, S0196: 1, H0543: 1, S0424: 1, S0462: 1, S0446: 1 and H0506: 1.				
HODDO66	1027207	625	2 - 136	2800					H0667: 3, S0222: 2, H0013: 2, L0438: 2, H0265: 1, H0583: 1, S0280: 1, H0036: 1, H0318: 1, L0471: 1, H0266: 1, H0328: 1, H0553: 1, S0364: 1, H0038: 1, H0040: 1, H0488: 1, L0796: 1, H0144: 1, H0684: 1 and H0423: 1.	2p11.2	178640, 216900		
HVVAT45	1027269	626	71 - 1117	2801				Pro-1 to Leu-8, Arg-41 to Gly-48, Ile-73 to Cys-80, Ala-137 to Tyr-144, Lys-193 to Ala-208, Leu-254 to Leu-259, Ala-317 to Ala-323, Glu-343 to Phe-349.					
HVCAG18	1027484	627	1 - 393	2802				Leu-46 to Thr-53, Pro-80 to Ser-86,	H0690: 1, H0683: 1, H0666: 1 and S0328: 1.	20q12-q13.2	118504, 118504,		

					Arg-101 to Gly-112, Lys-115 to Gly-122.					131242, 139320, 139320, 139320, 139320, 600281, 600281, 602025
HPTXK72	1027486	628	52 - 462	2803	Leu-52 to Thr-59, Pro-86 to Ser-92, Arg-107 to Gly-118, Lys-121 to Gly-128.					L0751: 29, H0549: 17, H0550: 17, L0666: 9, L0747: 8, H0689: 7, H0690: 7, H0682: 7, H0615: 6, H0670: 6, H0328: 5, H0150: 4, H0660: 4, S0330: 4, S0044: 4, L0362: 4, H0597: 3, H0688: 3, L0764: 3, L0657: 3, L0809: 3, L0753: 3, L0758: 3, L0759: 3, H0431: 2, H0046: 2, T0067: 2, H0059: 2, H0647: 2, L0774: 2, L0805: 2, L0783: 2, L0438: 2, H0593: 2, H0648: 2, H0672: 2, S0328: 2, S0404: 2, L0744: 2, L0779: 2, S0436: 2, H0662: 1, S0442: 1, S0444: 1,

								S0408: 1, S0007: 1, H0461: 1, H0085: 1, H0009: 1, S0024: 1, H0188: 1, H0039: 1, H0604: 1, H0424: 1, H0169: 1, H0674: 1, L0520: 1, L5569: 1, L0803: 1, L0804: 1, L0775: 1, L0658: 1, L0634: 1, L0542: 1, L0528: 1, L2269: 1, L0663: 1, L0665: 1, H0684: 1, H0659: 1, H0658: 1, S0380: 1, S0406: 1, H0555: 1 and L0780: 1.				253200, 600887	
HHSGW78	1028405	629	150 - 404	2804				H0306: 1 and S0388: 1.5q11.1					
HDTLR06	1029191	630	3 - 1013	2805				AR053: 5, AR089: 5, AR096: 4, AR039: 4, AR060: 3, AR104: 2, AR055: 2, AR033: 2, AR061: 1 L0731: 15, L0754: 14, H0616: 9, L0766: 8, L0758: 8, L0777: 7, H0266: 5, L0752: 5, S0358: 4, S0422: 4, L0518: 4, H0547: 4, S0406: 4, H0013: 3,					

	H0581: 3, H0545: 3, H0083: 3, S0003: 3, L0662: 3, L0776: 3, H0659: 3, L0439: 3, L0753: 3, S0434: 3, L0465: 3, H0171: 2, H0580: 2, H0486: 2, H0318: 2, L0471: 2, H0428: 2, H0553: 2, H0032: 2, H0038: 2, H0634: 2, H0551: 2, S0438: 2, L0764: 2, L0804: 2, L0655: 2, L0664: 2, S0374: 2, H0684: 2, H0672: 2, H0651: 2, H0518: 2, L0740: 2, L0756: 2, L0362: 2, L0603: 2, H0170: 1, H0686: 1, S0040: 1, H0583: 1, H0657: 1, S0212: 1, S0282: 1, S0420: 1, S0356: 1, S0442: 1, L0717: 1, H0411: 1, H0600: 1, H0587: 1, H0257: 1, T0039: 1, H0069: 1, S0280: 1, H0575: 1, H0036: 1, H0590: 1, L0105: 1, S0049: 1, H0570: 1,	
--	--	--

	H0050: 1, H0014: 1, H0373: 1, S0051: 1, H0510: 1, H0328: 1, H0688: 1, H0031: 1, H0644: 1, H0040: 1, H0063: 1, H0488: 1, L0475: 1, S0440: 1, H0641: 1, H0649: 1, H0652: 1, H0529: 1, L0369: 1, L0762: 1, L0763: 1, L0767: 1, L0649: 1, L0803: 1, L0650: 1, L0806: 1, L0805: 1, L0607: 1, L0657: 1, L0783: 1, L0809: 1, L0530: 1, L0793: 1, L0666: 1, L0665: 1, S0148: 1, S0126: 1, H0683: 1, H0658: 1, H0670: 1, H0660: 1, S0380: 1, S0152: 1, S0454: 1, H0521: 1, H0696: 1, S0188: 1, S0392: 1, H0626: 1, S0390: 1, L0759: 1, H0444: 1, S0308: 1, S0026: 1, H0667: 1, S0194: 1, H0542: 1, H0543: 1, S0412: 1 and H0506: 1.					
--	---	--	--	--	--	--

HPAMG11	1029484	631	1328 - 663	2806	Pro-32 to Lys-38, Ser-201 to Pro-211, Glu-217 to Glu-222.	H0413: 2, H0556: 1, H0638: 1, S0376: 1, H0457: 1, H0009: 1, H0519: 1, H0682: 1, H0672: 1, L0748: 1, L0759: 1 and H0445: 1.		
HSDJR27	1030870	632	1758 - 622	2807	Gln-8 to Arg-27, Val-34 to Asn-39, Tyr-65 to Gly-75, Glu-80 to Lys-87, Thr-207 to Gly-218, Thr-245 to Gln-250, Leu-256 to Thr-263, Leu-273 to Thr-281, Lys-289 to Leu-296, Ser-323 to Asn-330.	L0665: 3, L0777: 3, L0717: 2, L0776: 2, L0438: 2, L0756: 2, L0752: 2, S0116: 1, H0661: 1, H0339: 1, H0549: 1, H0587: 1, H0688: 1, H0553: 1, L0351: 1, S0422: 1, L0437: 1, L0769: 1, L0637: 1, L0771: 1, L0662: 1, L0794: 1, L0766: 1, L0655: 1, L0787: 1, L0789: 1, L0664: 1, L0352: 1, H0659: 1, L0748: 1, L0754: 1, L0779: 1, L0731: 1, L0758: 1, S0260: 1, L0480: 1, L0596: 1 and L0608: 1.		
HOCPL33	1030871	633	1032 - 571	2808	Asp-1 to Gly-6, Pro-14 to Trp-35, Arg-37 to Gly-45, Ser-63 to Pro-72, Pro-87 to Arg-100,	L0770: 4, L0439: 4, L0438: 3, H0670: 3, L0748: 3, L0740: 3, H0538: 2, L0777: 2, S0342: 1, S0110: 1,		

					Pro-102 to Gly-107.	S0354: 1, S0444: 1, S0360: 1, H0729: 1, H0728: 1, H0734: 1, H0619: 1, H0549: 1, H0550: 1, H0587: 1, H0427: 1, H0253: 1, H0023: 1, T0010: 1, H0039: 1, H0674: 1, H0135: 1, H0488: 1, H0494: 1, S0015: 1, H0647: 1, S0210: 1, L0763: 1, L0800: 1, L0644: 1, L0521: 1, L0768: 1, L0775: 1, L0805: 1, L0659: 1, L0782: 1, L0783: 1, L0528: 1, L0789: 1, L0791: 1, L0793: 1, L0532: 1, H0725: 1, H0659: 1, H0658: 1, H0660: 1, S0013: 1, S0037: 1, S0206: 1, L0751: 1, L0605: 1, L0485: 1, L0599: 1 and S0026: 1.				
HPCQN80	1030963	634	86 - 2158	2809		L0803: 4, L0777: 4, L0758: 4, L0804: 3, L0659: 3, L0752: 3, S0408: 2, L0717: 2, L0598: 2, L0770: 2,				

HODEJ22	1031076	635	1561 -	2810	L0662: 2, L0661: 2, L0657: 2, L0526: 2, L0664: 2, H0659: 2, H0648: 2, L0748: 2, L0751: 2, L0749: 2, L0779: 2, S0040: 1, H0713: 1, S0356: 1, S0442: 1, S0360: 1, H0393: 1, H0351: 1, H0441: 1, H0486: 1, H0581: 1, H0123: 1, H0050: 1, S0051: 1, H0673: 1, S0438: 1, S0144: 1, L0520: 1, L0763: 1, L0371: 1, L0637: 1, L5566: 1, L0800: 1, L0764: 1, L0773: 1, L0649: 1, L0381: 1, L0774: 1, L0375: 1, L0806: 1, L0653: 1, L0776: 1, L0809: 1, L0530: 1, L0788: 1, L0666: 1, H0521: 1, H0555: 1, S0032: 1, L0740: 1, L0745: 1, L0750: 1, L0756: 1, L0757: 1, L0591: 1, L0581: 1 and H0506: 1.	L0766: 6, L0804: 5,
---------	---------	-----	--------	------	--	---------------------

			1307				L0748: 5, L0666: 4, L0663: 4, L0634: 3, L0740: 3, H0445: 3, H0318: 2, H0046: 2, H0615: 2, H0428: 2, L0761: 2, L0775: 2, L0665: 2, H0658: 2, H0583: 1, H0656: 1, S0001: 1, H0637: 1, H0090: 1, H0038: 1, S0002: 1, L0520: 1, L0638: 1, L0649: 1, L0527: 1, L0657: 1, L0559: 1, L0647: 1, L0664: 1, S0052: 1, S0428: 1, H0682: 1, H0660: 1, H0555: 1 and L0751: 1.		
HODFZ16	1031085	636	340 - 498	2811	Phe-3 to Ala-23.		L0766: 2, L0748: 2, S0116: 1, L0005: 1, H0615: 1, H0529: 1, L0792: 1 and H0521: 1.		
HWGAE28	1031316	637	1 - 2271	2812	Cys-1 to Arg-6, Thr-84 to Thr-97, Arg-131 to Trp-136, Ser-155 to Gly-160, Thr-187 to Glu-201.		L0439: 9, H0519: 6, L0665: 5, H0547: 5, L0755: 5, S0434: 5, H0529: 4, L0659: 4, S0358: 3, S0010: 3, L0731: 3, L0599: 3, L0595: 3, H0422: 3, H0657: 2, H0581: 2,	2p24	107730, 107730, 107730, 107730, 182601, 602134

	H0251: 2, L0471: 2, H0510: 2, H0031: 2, L0763: 2, L0646: 2, L0662: 2, L0775: 2, L0809: 2, L0647: 2, H0436: 2, L0754: 2, L0758: 2, L0759: 2, L0605: 2, S0424: 2, H0624: 1, L0615: 1, H0341: 1, H0662: 1, S0418: 1, L0005: 1, S0360: 1, S0410: 1, S0046: 1, H0415: 1, H0600: 1, H0587: 1, H0642: 1, H0486: 1, H0250: 1, H0156: 1, H0546: 1, H0041: 1, S6028: 1, H0266: 1, S0334: 1, S0250: 1, T0006: 1, L0455: 1, H0708: 1, H0551: 1, H0059: 1, H0100: 1, L0370: 1, H0429: 1, H0494: 1, S0352: 1, S0370: 1, S0150: 1, H0641: 1, L0369: 1, L0520: 1, L0770: 1, L0638: 1, L0772: 1, L0641: 1, L0521: 1, L0794: 1, L0803: 1,						
--	--	--	--	--	--	--	--

							L0804: 1, L0650: 1, L0654: 1, L0661: 1, L0656: 1, L0526: 1, L0790: 1, L0666: 1, L0565: 1, H0520: 1, H0690: 1, H0435: 1, H0659: 1, H0670: 1, H0660: 1, H0696: 1, H0704: 1, S0406: 1, H0555: 1, S3014: 1, S0028: 1, L0740: 1, L0779: 1, L0777: 1, L0780: 1, L0592: 1, L0608: 1, L0362: 1, H0665: 1, S0194: 1, H0542: 1, H0423: 1 and L0465: 1.			
HOFNZ21	1031328	638	109 - 456	2813	Arg-1 to Gly-6.	H0415: 2	9p13-p12	230400, 250250		
HOOKH25	1031329	639	231 - 2696	2814	Ala-4 to Glu-13, Ala-21 to Asp-27, Lys-34 to Asn-40, Asp-91 to Ile-98, Pro-122 to Lys-128, Arg-160 to Gly-165, Glu-203 to Ser-213, Gly-218 to Cys-225, Ser-298 to Lys-304, Glu-307 to Asn-312, Pro-327 to His-333,	L0747: 8, L0659: 7, L0776: 5, L0770: 4, L0662: 4, L0768: 4, L0775: 4, L0752: 4, L0603: 4, H0556: 3, S0410: 3, L0665: 3, L0439: 3, L0750: 3, S0356: 2, S0408: 2, L0471: 2, H0271: 2, S0440: 2, L0762: 2, L0769: 2, L0372: 2,	9p13-p12	230400, 250250		

						Thr-363 to Ser-368, L0646: 2, L0764: 2, Arg-375 to Val-383, L0773: 2, L0766: 2, Asp-500 to Leu-505, L0649: 2, L0655: 2, Arg-602 to Asp-608, L0663: 2, L0664: 2, Glu-722 to Ser-734, H0144: 2, L0565: 2, Glu-739 to Val-744, H0547: 2, H0690: 2, Glu-746 to His-751, H0659: 2, L0602: 2, Leu-778 to Phe-784, S0404: 2, L0754: 2, Pro-790 to Gly-795, L0749: 2, L0777: 2, Ala-797 to Thr-807, L0758: 2, L0596: 2, Tyr-812 to Tyr-821. H0657: 1, S0001: 1, H0484: 1, H0638: 1, S0418: 1, S0444: 1, L0717: 1, H0333: 1, H0156: 1, H0052: 1, H0545: 1, H0012: 1, H0083: 1, H0687: 1, H0674: 1, H0090: 1, H0063: 1, H0264: 1, H0100: 1, L0434: 1, L0351: 1, H0494: 1, H0561: 1, S0466: 1, H0641: 1, H0529: 1, L0763: 1, L0761: 1, L0667: 1, L0363: 1, L0650: 1, L0653: 1, L0654: 1, L0379: 1, L0607: 1, L0807: 1, L0635: 1, L0783: 1, L0383: 1, L0809: 1,		
--	--	--	--	--	--	--	--	--

								L0666: 1, H0658: 1, H0670: 1, H0648: 1, H0521: 1, S0406: 1, L0748: 1, L0731: 1, L0593: 1, L0595: 1, S0026: 1, S0276: 1 and H0422: 1.			
HDTIL75	1031435	640	1 - 1092	2815			Gly-1 to Arg-6, Glu-26 to Gly-31, Gln-70 to Trp-75.	S0410: 8, H0620: 5, H0012: 2, S0040: 1, S0358: 1, S0132: 1, H0486: 1, H0706: 1, H0031: 1, H0628: 1, H0316: 1, S0036: 1, H0090: 1, H0038: 1, H0131: 1, S0144: 1, L0774: 1, L0789: 1, L0666: 1, H0144: 1, L0438: 1, H0435: 1, H0672: 1, S0328: 1, H0539: 1, L0731: 1, S0436: 1 and H0665: 1.			
HPRSB55	1031451	641	3 - 1751	2816			Cys-18 to Lys-24, Gly-57 to Gly-63, Lys-72 to Ile-81, Cys-88 to Glu-93, Gly-97 to Glu-116, Thr-121 to Val-129, Lys-137 to Lys-150, Thr-156 to Asp-161, Gly-177 to Leu-182,	L0766: 4, L0758: 4, L0773: 3, L0748: 3, L0751: 3, L0731: 3, L0759: 3, H0171: 2, H0013: 2, H0644: 2, H0616: 2, H0633: 2, L0805: 2, L0659: 2, L0666: 2, L0665: 2, L0754: 2, L0779: 2,			

					Glu-213 to Leu-229, Asp-275 to Arg-281, Asp-287 to Trp-299, Lys-302 to Arg-316, Leu-338 to Ser-343.	S6024: 1, S0212: 1, S0354: 1, S0046: 1, T0039: 1, H0599: 1, H0575: 1, H0036: 1, T0110: 1, H0046: 1, H0050: 1, L0471: 1, H0355: 1, H0271: 1, H0687: 1, H0553: 1, H0166: 1, H0212: 1, H0211: 1, H0264: 1, H0272: 1, H0100: 1, H0494: 1, S0002: 1, L0637: 1, L0627: 1, L0645: 1, L0764: 1, L0803: 1, L0774: 1, L0653: 1, L0606: 1, L0790: 1, L0664: 1, H0435: 1, H0660: 1, H0648: 1, H0521: 1, L0439: 1, L0747: 1, L0749: 1, L0750: 1, L0752: 1 and L0596: 1.		
HPDPY36	1031606	642	482 - 757	2817	Pro-33 to Pro-40, Pro-47 to Met-56.	L0471: 1, H0617: 1, L0761: 1, L0768: 1, H0658: 1, L0754: 1 and L0779: 1.	12	
HETFJ47	1031922	643	3 - 1328	2818		AR060: 4, AR089: 2, AR061: 1, AR096: 1, AR033: 0, AR039: 0, AR053: 0, AR052: 0		

	L0596: 7, H0622: 5, L0747: 5, H0046: 4, L0372: 4, L0764: 3, L0662: 3, L0657: 3, L0783: 3, L0663: 3, L0752: 3, H0662: 2, S0356: 2, H0040: 2, H0538: 2, L0646: 2, L0771: 2, L0774: 2, L0805: 2, L0809: 2, L0666: 2, L0665: 2, H0435: 2, H0672: 2, L0748: 2, L0751: 2, L0777: 2, L0608: 2, H0624: 1, H0686: 1, H0295: 1, H0241: 1, S0418: 1, S0358: 1, S0376: 1, S0360: 1, S0132: 1, H0642: 1, H0590: 1, H0150: 1, H0620: 1, H0023: 1, H0356: 1, H0424: 1, H0213: 1, H0617: 1, H0169: 1, H0634: 1, H0063: 1, T0067: 1, H0488: 1, H0334: 1, S0370: 1, S0440: 1, H0652: 1, L0645: 1, L0773: 1, L0648: 1, L0806: 1, L0776: 1,						
--	--	--	--	--	--	--	--

							L0541: 1, L0789: 1, L0790: 1, L0664: 1, S0374: 1, H0689: 1, H0666: 1, H0478: 1, L0779: 1, S0436: 1, H0506: 1 and H0712: 1.			
HMAMI21	1031988	644	14 - 1222	2819			AR096: 10, AR089: 10, AR060: 7, AR104: 6, AR033: 5, AR053: 5, AR039: 4, AR061: 3, AR055: 3 L0803: 9, H0648: 5, H0046: 3, L0805: 3, L0731: 3, S0444: 2, S0360: 2, S0476: 2, H0597: 2, H0412: 2, L0764: 2, L0809: 2, H0670: 2, L0740: 2, L0747: 2, L0756: 2, L0777: 2, S0040: 1, T0049: 1, S0420: 1, S0358: 1, S0376: 1, H0580: 1, L0152: 1, S0045: 1, S0278: 1, H0261: 1, S0280: 1, H0618: 1, H0012: 1, H0266: 1, H0488: 1, H0268: 1, S0144: 1, S0344: 1, S0426: 1, L0638: 1, L0646: 1,			

						L0794: 1, L0804: 1, L0774: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, S0374: 1, H0658: 1, H0651: 1, S0028: 1, L0779: 1, L0780: 1, L0755: 1, L0759: 1, H0445: 1 and S0276: 1.			
HCOQQQ85	1032475	645	343 - 672	2820	Arg-37 to Ser-44, Leu-68 to Lys-73, Val-77 to Lys-84, Glu-98 to Lys-110.	L0775: 9, S0126: 9, L0747: 9, H0617: 7, L0750: 7, L0731: 7, H0670: 5, L0740: 5, L0770: 4, L0769: 4, L0768: 4, L0783: 4, L0752: 4, T0023: 3, L0764: 3, L0653: 3, L0776: 3, H0672: 3, S0046: 2, T0039: 2, H0318: 2, H0251: 2, H0545: 2, H0012: 2, H0373: 2, S0388: 2, H0266: 2, H0087: 2, H0100: 2, H0280: 2, L0368: 2, L0753: 2, L0755: 2, L0757: 2, H0595: 2, L0590: 2, L0592: 2, S6024: 1, H0255: 1, H0664: 1, H0177: 1, S0360: 1,	1q21	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412,	

						S0408: 1, H0411: 1, H0298: 1, L0622: 1, T0040: 1, L0021: 1, S0049: 1, H0052: 1, H0263: 1, H0597: 1, H0620: 1, T0003: 1, L0163: 1, H0594: 1, H0252: 1, H0606: 1, H0163: 1, S0464: 1, S0438: 1, H0652: 1, L0598: 1, L0763: 1, L0773: 1, L0375: 1, L0629: 1, L0628: 1, L0659: 1, L0518: 1, L0545: 1, L0541: 1, L0788: 1, L0665: 1, H0144: 1, H0691: 1, H0682: 1, H0658: 1, H0660: 1, H0648: 1, S0330: 1, S0380: 1, S0027: 1, L0748: 1, L0754: 1, L0756: 1, L0780: 1, L0758: 1, L0759: 1, L0462: 1 and H0352: 1.				601652, 602491
HE2DQ62	1033653	646	1515 - 796	2821	Arg-1 to Ala-7, Glu-98 to Asp-103, Glu-109 to Asp-115, Leu-141 to Glu-146, Glu-172 to Arg-180.	H0545: 3, H0046: 3, L0763: 3, L0783: 3, S0358: 2, L0769: 2, L0774: 2, L0809: 2, H0547: 2, S0126: 2,				

							H0660: 2, H0672: 2, S0031: 2, L0588: 2, H0624: 1, H0170: 1, H0265: 1, H0556: 1, H0295: 1, H0583: 1, H0657: 1, H0662: 1, S0356: 1, S0354: 1, S0360: 1, H0637: 1, S0046: 1, L0717: 1, H0550: 1, H0013: 1, H0086: 1, H0011: 1, H0510: 1, H0494: 1, H0646: 1, H0529: 1, L0502: 1, L0770: 1, L0638: 1, L0761: 1, L0521: 1, L0528: 1, L0666: 1, L0665: 1, H0144: 1, S0374: 1, H0519: 1, H0659: 1, S0380: 1, H0704: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, H0653: 1, S0194: 1 and S0276: 1.			
HEBAE89	1034320	647	179 - 400	2822	Pro-20 to Phe-32, Pro-52 to Phe-59, Lys-68 to His-74.	S0007: 5, S0010: 1, H0617: 1 and L0769: 1.				
HKDBF43	1034471	648	3 - 431	2823	Pro-2 to Asp-14, Ser-71 to Thr-76, Ser-110 to Trp-119.	AR089: 31, AR053: 27, AR096: 26, AR052: 25, AR039: 16, AR060:				

									15, AR033: 13, AR104: 13, AR055: 6, AR061: 4 L0749: 4, L0471: 3, L0748: 3, L0777: 3, H0545: 2, H0561: 2, L0770: 2, L0769: 2, L0745: 2, L0779: 2, L0752: 2, L0759: 2, H0657: 1, H0663: 1, H0125: 1, S0358: 1, H0393: 1, H0411: 1, L0586: 1, H0013: 1, H0156: 1, H0083: 1, H0356: 1, H0328: 1, H0321: 1, H0551: 1, S0422: 1, L0764: 1, L0773: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, H0547: 1, H0519: 1, H0683: 1, H0659: 1, H0648: 1, H0672: 1, S0330: 1, S3014: 1, L0731: 1, S0031: 1 and H0352: 1.					
HVVCT43	1034539	649	3152 - 2838	2824					L0666: 47, H0046: 20, H0672: 13, L0754: 11, S0003: 9, L0766: 6, L0664: 6, L0744: 5, L0439: 5, L0777: 5,					

L0663: 4, H0658: 4, L0599: 4, S0214: 3, L0637: 3, L0521: 3, L0804: 3, L0438: 3, H0435: 3, L0752: 3, S0408: 2, S0046: 2, H0497: 2, H0590: 2, H0050: 2, H0644: 2, H0264: 2, T0041: 2, S0002: 2, S0426: 2, L0770: 2, L0794: 2, L0775: 2, L0665: 2, H0547: 2, S0126: 2, H0659: 2, S0152: 2, H0478: 2, L0786: 2, L0779: 2, L0731: 2, L0759: 2, L0608: 2, H0423: 2, H0624: 1, H0556: 1, H0686: 1, S0342: 1, S0114: 1, S0132: 1, H0645: 1, S0222: 1, H0601: 1, H0270: 1, T0114: 1, H0013: 1, L0021: 1, H0599: 1, H0575: 1, H0318: 1, L0738: 1, H0327: 1, H0014: 1, H0373: 1, S0051: 1, H0021: 1, H0316: 1, H0040: 1, H0616: 1,
--

HTTDR30	1035435	650	609 - 1022	2825	Val-39 to Ala-45.	H0100: 1, H0625: 1, H0561: 1, S0440: 1, H0641: 1, S0144: 1, S0142: 1, L0598: 1, H0529: 1, L0369: 1, L0769: 1, L0646: 1, L0771: 1, L0662: 1, L0803: 1, L0774: 1, L0651: 1, L0805: 1, L0776: 1, L0659: 1, L0783: 1, L0791: 1, L0792: 1, H0519: 1, H0684: 1, H0670: 1, H0660: 1, H0648: 1, S0328: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, H0436: 1, L0758: 1, H0445: 1, L0684: 1, H0595: 1, L0588: 1, S0026: 1, H0543: 1, H0422: 1 and H0506: 1. AR055: 8, AR060: 6, AR052: 6, AR089: 5, AR096: 5, AR053: 5, AR033: 4, AR061: 3, AR104: 2, AR039: 2 L0766: 7, H0591: 3, H0040: 3, L0794: 3, H0689: 3, L0752: 3,		
---------	---------	-----	------------	------	-------------------	--	--	--

HODGO46	1035602	651	420 - 316	2826	Thr-11 to Asn-18, Gly-25 to Glu-30.	H0581: 2, H0059: 2, L0771: 2, L0809: 2, L0665: 2, L0749: 2, H0637: 1, H0497: 1, T0109: 1, H0036: 1, H0318: 1, H0039: 1, H0181: 1, H0038: 1, H0634: 1, L0637: 1, L0662: 1, L0649: 1, L0388: 1, L0776: 1, L0655: 1, L0658: 1, L0788: 1, H0520: 1, H0690: 1, H0670: 1, H0672: 1, L0751: 1, L0747: 1, L0750: 1, L0777: 1, L0758: 1 and L0361: 1.		
HNTTB23	1035988	652	3 - 974	2827	Pro-21 to Asn-31, Arg-158 to Lys-170, Thr-194 to Leu-200.	AR039: 2, AR096: 1, AR089: 1, AR060: 1, AR033: 1, AR061: 1, AR055: 0, AR053: 0 L0757: 3, L0594: 2, S0212: 1, L0527: 1, H0547: 1, S0328: 1 and L0756: 1.		
HVVBV73	1036583	653	334 - 1299	2828	His-55 to Arg-63, Glu-96 to Val-109, Ser-113 to Ala-119.	S0278: 5, H0580: 2, H0575: 2, H0050: 2, S0344: 2, L0764: 2.		

						Lys-140 to Tyr-150, Glu-157 to Ser-172, Gly-174 to Asn-185, Arg-223 to Pro-245, Leu-264 to Asp-272.				H0672: 2, T0002: 1, S0134: 1, H0656: 1, S0116: 1, H0706: 1, S0010: 1, H0581: 1, H0375: 1, H0030: 1, H0031: 1, H0644: 1, H0090: 1, H0087: 1, T0041: 1, S0142: 1, S0002: 1, S0426: 1, L0770: 1, L0667: 1, L0794: 1, L0803: 1, L0543: 1, H0521: 1, L0748: 1, L0749: 1, S0260: 1 and H0542: 1.				
HE8MH38	1036707	654	1 - 1812	2829						H0013: 2 and S0126: 1.				
HTEPV42	1036973	655	1 - 435	2830		Gln-1 to Asp-6, Gly-11 to Ser-16, Pro-21 to Leu-41, Ser-44 to Pro-54.				L0754: 6, L0758: 6, L0598: 3, L0756: 3, H0716: 2, S0358: 2, S0360: 2, S0007: 2, H0318: 2, H0052: 2, L0471: 2, H0615: 2, L0794: 2, L0766: 2, L0663: 2, H0658: 2, L0750: 2, L0731: 2, H0664: 1, H0638: 1, S0442: 1, H0741: 1, H0734: 1, H0229: 1, H0411: 1, H0415: 1, H0497: 1, H0574: 1, H0599: 1, H0108: 1,				

HFTCG52	1037108	656	706 - 89	2831	Val-10 to Lys-17, Val-137 to Gly-142, Pro-148 to Tyr-167.	<p>S0010: 1, S0474: 1, H0581: 1, H0050: 1, S0214: 1, H0030: 1, H0032: 1, H0113: 1, H0616: 1, T0067: 1, H0488: 1, H0059: 1, S0438: 1, H0538: 1, L0803: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L5623: 1, L0788: 1, L0791: 1, L0793: 1, L0666: 1, H0520: 1, H0519: 1, H0684: 1, H0670: 1, H0521: 1, L0747: 1, L0749: 1, L0752: 1, L0759: 1, S0434: 1, L0596: 1, L0592: 1, L0362: 1 and H0423: 1.</p> <p>AR061: 28, AR033: 25, AR104: 22, AR055: 22, AR060: 19, AR089: 19, AR052: 12, AR039: 11, AR096: 11, AR053: 8 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4,</p>		
---------	---------	-----	----------	------	---	--	--	--

	H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1,	
--	--	--

HKAOB40	1037131	657	1 - 360	2832	Asp-64 to Phe-69, Thr-104 to Phe-120.	L0766: 1, L0655: 1, L0657: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.		
						AR052: 26, AR033: 22, AR104: 15, AR053: 14, AR060: 12, AR055: 12, AR089: 11, AR096: 8, AR061: 4, AR039: 2 H0360: 14, S0408: 5, L0774: 5, L0749: 5, L0775: 4, H0648: 4, L0623: 3, H0373: 3, L0520: 3, S0328: 3, S0406: 3, S0360: 2, S0222: 2, H0575: 2, T0082: 2, L0471: 2, H0494: 2, L0763: 2, L0769: 2, L0764: 2, L0517: 2, L0809: 2, H0684: 2, L0747: 2, S0031: 2, L0581: 2,		

	H0171: 1, T0002: 1, H0685: 1, T0049: 1, H0657: 1, S0116: 1, L0481: 1, H0638: 1, S0358: 1, S0444: 1, S0410: 1, H0580: 1, H0722: 1, S0045: 1, S0046: 1, S0132: 1, H0393: 1, T0060: 1, H0156: 1, H0230: 1, H0320: 1, H0014: 1, L0163: 1, S0051: 1, H0615: 1, S0036: 1, H0412: 1, H0202: 1, H0560: 1, S0438: 1, S0440: 1, S0144: 1, L0772: 1, L0521: 1, L0662: 1, L0767: 1, L0768: 1, L5574: 1, L0522: 1, L0659: 1, L0526: 1, L0782: 1, L0788: 1, H0689: 1, H0690: 1, H0658: 1, H0670: 1, H0672: 1, S0378: 1, S0404: 1, S0028: 1, L0779: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, L0589: 1, S0192: 1, H0422: 1 and S0424: 1.	
--	---	--

HPDVE37	1037303	658	34 - 885	2833	His-8 to Gly-18, Phe-25 to Ala-39, Val-70 to Ser-75, Gln-114 to Gly-121, Thr-146 to Lys-155, Gly-213 to Asn-219, Glu-256 to Asp-267.	H0521: 68, H0090: 12, L0666: 10, L0748: 10, L0775: 9, H0522: 9, H0638: 8, L0771: 8, L0659: 8, H0591: 7, L0747: 7, L0770: 5, L0664: 5, L0754: 5, H0580: 4, H0486: 4, H0622: 4, H0644: 4, H0551: 4, H0494: 4, L0655: 4, S0374: 4, L0755: 4, L0759: 4, S0132: 3, H0013: 3, H0421: 3, H0553: 3, H0616: 3, H0641: 3, S0142: 3, L0766: 3, L0663: 3, L0665: 3, H0547: 3, L0756: 3, L0779: 3, L0752: 3, S0358: 2, S0376: 2, S0444: 2, S0360: 2, S0278: 2, H0431: 2, H0586: 2, H0575: 2, H0318: 2, H0581: 2, H0457: 2, S0003: 2, H0688: 2, H0039: 2, H0264: 2, H0529: 2, L0763: 2, L0769: 2, L0646: 2, L0803: 2, L0774: 2, H0701: 2,		
---------	---------	-----	----------	------	--	--	--	--

S0380: 2, H0555: 2, L0439: 2, L0740: 2, L0777: 2, L0731: 2, H0445: 2, L0599: 2, L0608: 2, H0506: 2, S0040: 1, H0650: 1, S0116: 1, S0212: 1, S0356: 1, S0354: 1, S0468: 1, S0045: 1, H0619: 1, S6022: 1, H0370: 1, H0392: 1, H0497: 1, H0642: 1, T0114: 1, H0427: 1, H0042: 1, H0251: 1, H0596: 1, H0046: 1, H0086: 1, H0057: 1, H0083: 1, H0375: 1, T0023: 1, H0031: 1, L0055: 1, H0598: 1, H0135: 1, H0038: 1, H0040: 1, H0412: 1, H0056: 1, T0042: 1, S0370: 1, H0509: 1, S0144: 1, S0002: 1, S0426: 1, L0796: 1, L0772: 1, L0764: 1, L0765: 1, L0662: 1, L0768: 1, L0389: 1, L0804: 1, L0651: 1, L0636: 1, L0647: 1,					
--	--	--	--	--	--

									L0791: 1, H0702: 1, H0693: 1, H0593: 1, S0122: 1, H0689: 1, H0659: 1, H0658: 1, S0328: 1, H0539: 1, S0152: 1, H0479: 1, S3012: 1, S0027: 1, S0206: 1, L0744: 1, L0749: 1, L0757: 1, S0031: 1, H0707: 1, L0597: 1, L0605: 1, H0667: 1, S0242: 1, H0543: 1, H0423: 1, H0677: 1 and H0352: 1.				
HTLES74	1037438	659	95 - 859	2834					H0618: 3, L0740: 2, L0749: 2, L0596: 2, L0597: 2, S0354: 1, H0580: 1, H0042: 1, H0253: 1, S0010: 1, H0172: 1, H0615: 1, H0412: 1, S0386: 1, L0648: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0657: 1, L0809: 1, L0779: 1, L0758: 1 and H0445: 1.				
HCORG51	1037480	660	3 - 434	2835	Cys-1 to Glu-6, Asp-52 to Asp-65, Lys-82 to Pro-88, Phe-111 to Ala-123.				S0136: 33, L0747: 16, H0144: 14, L0731: 14, L0752: 13, S0422: 12, L0740: 12, L0754: 11,				

				L0750: 11, H0038: 10, S0026: 10, H0556: 9, S0360: 9, L0665: 9, H0521: 9, H0616: 8, L0520: 8, L0776: 8, L0664: 8, L0757: 8, H0009: 7, S0003: 7, L0655: 7, S0406: 7, L0748: 7, H0170: 6, L0471: 6, H0620: 6, S0440: 6, L0518: 6, L0749: 6, L0608: 6, H0341: 5, S0442: 5, H0351: 5, H0370: 5, H0013: 5, H0090: 5, H0551: 5, L0598: 5, L0375: 5, L0659: 5, S0126: 5, H0682: 5, H0648: 5, L0751: 5, H0543: 5, H0423: 5, L0005: 4, S0444: 4, S0007: 4, H0163: 4, H0494: 4, H0529: 4, L0769: 4, L0521: 4, L0775: 4, L0666: 4, H0659: 4, H0670: 4, S0027: 4, L0758: 4, H0542: 4, H0657: 3, S0212: 3, S0354: 3, S0408: 3, H0580: 3,
--	--	--	--	---

	S0476: 3, S0278: 3, S0222: 3, H0486: 3, H0687: 3, H0674: 3, S0448: 3, L0646: 3, L0662: 3, L0649: 3, L0774: 3, L0657: 3, S0374: 3, H0547: 3, S0328: 3, S3014: 3, H0444: 3, H0171: 2, H0265: 2, T0002: 2, S0040: 2, H0716: 2, H0295: 2, T0049: 2, S0218: 2, H0656: 2, S0116: 2, H0638: 2, S0418: 2, S0420: 2, S0358: 2, S0045: 2, H0369: 2, H0431: 2, H0415: 2, H0592: 2, H0586: 2, H0574: 2, T0109: 2, H0250: 2, S0280: 2, S0010: 2, H0052: 2, H0050: 2, H0012: 2, H0051: 2, S0051: 2, H0266: 2, H0288: 2, S0214: 2, H0252: 2, H0428: 2, H0039: 2, H0673: 2, H0135: 2, H0063: 2, H0412: 2, H0623: 2, S0150: 2, H0207: 2,	
--	--	--

			H0641: 2, S0142: 2, S0344: 2, L0770: 2, L0771: 2, L0766: 2, L0558: 2, L0519: 2, H0520: 2, H0684: 2, H0435: 2, H0710: 2, H0696: 2, H0704: 2, H0134: 2, H0436: 2, S0028: 2, L0756: 2, L0753: 2, H0445: 2, S0434: 2, L0588: 2, H0422: 2, S0470: 1, H0686: 1, H0685: 1, S0342: 1, H0294: 1, S0114: 1, S0134: 1, H0583: 1, H0484: 1, H0663: 1, H0241: 1, H0176: 1, S0356: 1, T0008: 1, H0637: 1, H0152: 1, S0046: 1, H0619: 1, H0645: 1, H0411: 1, H0438: 1, H0600: 1, H0497: 1, H0642: 1, H0331: 1, T0039: 1, H0635: 1, H0427: 1, H0156: 1, H0097: 1, H0575: 1, H0706: 1, H0390: 1, H0581: 1, H0421: 1, H0434: 1, H0196: 1,					
--	--	--	--	--	--	--	--	--

	H0309: 1, H0596: 1, L0040: 1, H0597: 1, H0327: 1, H0530: 1, H0544: 1, H0545: 1, H0046: 1, N0006: 1, H0570: 1, H0569: 1, H0172: 1, H0123: 1, H0010: 1, H0373: 1, H0083: 1, H0510: 1, H0099: 1, H0267: 1, H0290: 1, H0328: 1, H0535: 1, H0622: 1, L0483: 1, T0006: 1, H0316: 1, H0591: 1, H0040: 1, H0634: 1, H0413: 1, H0100: 1, T0041: 1, H0334: 1, H0560: 1, H0625: 1, S0438: 1, H0647: 1, S0144: 1, H0538: 1, UNKWN: 1, L0369: 1, L0762: 1, L0637: 1, L0761: 1, L0373: 1, L0764: 1, L0773: 1, L0648: 1, L0626: 1, L0767: 1, L0794: 1, L0386: 1, L0378: 1, L0805: 1, L0629: 1, L0383: 1, L0382: 1, L0809: 1, L0530: 1,
--	--

HPAMM72	1038344	661	2 - 520	2836	Gly-1 to Thr-11.	L0789: 1, L0663: 1, S0428: 1, H0701: 1, L0565: 1, H0519: 1, H0593: 1, H0689: 1, H0658: 1, H0672: 1, S0330: 1, H0539: 1, S0378: 1, S0380: 1, H0709: 1, S0152: 1, S0332: 1, S0044: 1, S0188: 1, H0187: 1, L0356: 1, H0478: 1, H0627: 1, H0631: 1, L0611: 1, S0206: 1, S0032: 1, L0439: 1, L0786: 1, H0343: 1, L0592: 1, L0485: 1, H0668: 1, H0136: 1, S0194: 1, S0196: 1, S0460: 1, H0506: 1 and H0008: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850,
						L0747: 5, H0424: 4, H0617: 4, L0769: 3, L0526: 3, S3014: 3, L0748: 3, L0750: 3, H0661: 2, H0663: 2, H0392: 2, H0156: 2, H0123: 2, H0033: 2, H0213: 2, H0059: 2, L0763: 2, L0542: 2, H0519: 2, L0751: 2,		

HKZAT03	1038378	662	21 - 1559	2837	Thr-1 to Gly-8, Phe-49 to Leu-67, Gln-142 to Gly-150, Pro-274 to Leu-282,	L0779: 2, L0731: 2, L0757: 2, L0605: 2, L0615: 1, S0342: 1, H0580: 1, S0278: 1, H0550: 1, S0280: 1, L0021: 1, T0048: 1, H0052: 1, H0544: 1, H0545: 1, L0471: 1, H0012: 1, H0620: 1, H0014: 1, N0007: 1, S0051: 1, H0083: 1, H0284: 1, S0250: 1, H0688: 1, H0708: 1, H0080: 1, H0494: 1, H0509: 1, L0770: 1, L0764: 1, L0771: 1, L0376: 1, L0782: 1, L0809: 1, L0545: 1, L0666: 1, H0682: 1, H0659: 1, H0658: 1, H0672: 1, H0696: 1, S0044: 1, H0214: 1, L0743: 1, L0740: 1, L0754: 1, L0777: 1, S0260: 1, S0276: 1 and S0196: 1.	156850, 186580, 191092, 600140, 600273, 601313, 601785
						H0617: 14, H0521: 11, L0794: 4, H0542: 4, H0638: 3, S0360: 3, L0648: 3, L0659: 3,	22q13.33

					Pro-396 to Leu-402, L0665: 3, S0328: 3, Arg-405 to Glu-410, H0518: 3, H0423: 3, Gly-436 to Ala-442, S0358: 2, H0622: 2, Arg-470 to Pro-476, H0641: 2, L0763: 2, Pro-481 to Leu-486, L0663: 2, L0664: 2, H0689: 2, H0522: 2, H0555: 2, H0422: 2, H0624: 1, H0585: 1, H0657: 1, H0671: 1, H0402: 1, S0376: 1, H0580: 1, S0278: 1, H0549: 1, H0602: 1, H0586: 1, H0069: 1, H0635: 1, H0581: 1, H0546: 1, H0510: 1, H0179: 1, H0271: 1, H0644: 1, H0606: 1, H0090: 1, H0634: 1, H0551: 1, H0488: 1, H0509: 1, L0640: 1, L0800: 1, L0662: 1, L0804: 1, L0607: 1, L0657: 1, L0809: 1, L0790: 1, L0666: 1, H0593: 1, H0684: 1, H0672: 1, H0710: 1, S0434: 1, S0436: 1 and S0196: 1.				
HDQMA85	1038717	663	228 - 356	2838			12p12.3- p12.1	103950, 112410,	

									150100, 168470, 190070, 190070, 200990, 602096
									103950, 112410, 150100, 168470, 190070, 190070, 200990, 602096
HVCCQ82	1038718	664	3 - 578	2839	Ala-14 to Asp-19, Lys-92 to Arg-110.	L0748: 34, L0777: 15, S0438: 11, S0192: 11, L0608: 7, H0331: 6, H0574: 6, L0771: 6, S0027: 6, L0756: 6, H0632: 5, L0731: 5, S0360: 4, H0427: 4, L0662: 4, L0744: 4, L0779: 4, L0757: 4, S0242: 4, S0354: 3, S0408: 3, H0494: 3, H0509: 3, L0770: 3, L0775: 3, L0809: 3, L0666: 3, H0519: 3, H0648: 3, S3014: 3, S0028: 3, L0750: 3, H0661: 2, S0442: 2, S0358: 2, S0376: 2, S0444: 2, H0013: 2, S0280: 2, H0309: 2, H0545: 2, H0510: 2, H0032: 2, H0551: 2, S0142: 2, S0422: 2, L0774: 2, L0806: 2,	12p12.3- p12.1		

L0776: 2, L0518: 2, L0532: 2, S0374: 2, H0547: 2, H0435: 2, H0696: 2, S0206: 2, S0032: 2, L0755: 2, L0758: 2, H0668: 2, S0194: 2, H0170: 1, H0685: 1, S0116: 1, H0638: 1, H0339: 1, S0045: 1, S0278: 1, S6022: 1, H0586: 1, H0497: 1, H0486: 1, L0021: 1, H0003: 1, H0147: 1, H0421: 1, H0546: 1, S0050: 1, H0014: 1, H0015: 1, S0051: 1, H0355: 1, H0375: 1, H0031: 1, H0628: 1, H0038: 1, S0014: 1, S0466: 1, S0440: 1, H0633: 1, H0646: 1, S0344: 1, S0210: 1, S0002: 1, L0371: 1, L0638: 1, L0772: 1, L0373: 1, L0764: 1, L0522: 1, L0803: 1, L0526: 1, L0545: 1, L0787: 1, L0790: 1, L0663: 1, H0520: 1, H0593: 1,					
--	--	--	--	--	--

									S0126: 1, H0682: 1, H0660: 1, H0666: 1, S0152: 1, S0406: 1, S0392: 1, H0345: 1, L0742: 1, L0439: 1, L0740: 1, L0753: 1, H0444: 1, H0653: 1 and S0196: 1.			
HTGFP54	1038915	665	22 - 528	2840					H0435: 2, S0218: 1 and H0415: 1.			
HBODF41	1039017	666	1 - 2418	2841					L0747: 26, L0740: 20, L0748: 18, L0752: 14, L0745: 13, L0599: 11, L0659: 8, H0509: 7, L0756: 7, L0777: 7, S0222: 6, S0010: 6, L0764: 6, L0776: 6, L0666: 6, L0754: 6, L0746: 6, H0013: 5, S0346: 5, H0050: 5, L0750: 5, L0758: 5, S0360: 4, H0574: 4, H0632: 4, S0280: 4, L0471: 4, H0039: 4, H0622: 4, L0766: 4, L0774: 4, L0783: 4, H0445: 4, L0366: 4, H0586: 3, H0251: 3, H0014: 3, T0010: 3, H0644: 3, L0769: 3,			

	L0796: 3, L0761: 3, L0663: 3, L0744: 3, L0751: 3, L0731: 3, L0759: 3, L0596: 3, S0418: 2, S0358: 2, S0376: 2, H0580: 2, H0393: 2, H0392: 2, H0592: 2, H0427: 2, H0052: 2, N0006: 2, H0024: 2, H0266: 2, H0428: 2, H0553: 2, H0633: 2, S0142: 2, L0598: 2, L0763: 2, L0646: 2, L0662: 2, L0803: 2, L0775: 2, L0809: 2, H0144: 2, L0438: 2, H0690: 2, H0435: 2, H0670: 2, H0651: 2, H0539: 2, S0378: 2, S3014: 2, L0749: 2, S0031: 2, S0434: 2, L0605: 2, L0591: 2, S0192: 2, H0506: 2, H0624: 1, T0002: 1, S0342: 1, T0049: 1, H0650: 1, S0212: 1, S0001: 1, H0384: 1, H0662: 1, S0356: 1, S0442: 1, S0354: 1, S0444: 1,					
--	--	--	--	--	--	--

			S0408: 1, S0410: 1, H0229: 1, H0208: 1, S0045: 1, S0046: 1, H0619: 1, H0645: 1, H0411: 1, H0261: 1, S6016: 1, H0431: 1, H0438: 1, H0587: 1, H0643: 1, H0331: 1, H0599: 1, S0049: 1, H0596: 1, H0545: 1, H0123: 1, H0057: 1, H0373: 1, S0051: 1, H0083: 1, H0355: 1, H0687: 1, H0048: 1, H0212: 1, S0364: 1, H0361: 1, H0090: 1, H0038: 1, H0087: 1, L0060: 1, H0551: 1, H0264: 1, S0386: 1, H0100: 1, L0370: 1, T0042: 1, S0352: 1, S0440: 1, H0646: 1, S0210: 1, S0422: 1, L0770: 1, L0800: 1, L0771: 1, L0773: 1, L0648: 1, L0768: 1, L0522: 1, L0632: 1, L0805: 1, L0607: 1, L0512: 1, L0791: 1, L0792: 1, S0053: 1,					
--	--	--	--	--	--	--	--	--

HR0DW53	1039068	667	45 - 494	2842	Arg-115 to Gln-127, Leu-137 to Val-150.	S0374: 1, H0593: 1, H0659: 1, S0152: 1, H0696: 1, H0704: 1, H0436: 1, L0609: 1, S0390: 1, S0037: 1, S0027: 1, L0741: 1, L0755: 1, H0444: 1, L0485: 1, L0581: 1, H0667: 1, L0096: 1 and S0194: 1.		
						L0748: 14, L0766: 11, L0777: 5, L0794: 4, L0803: 4, L0776: 3, L0747: 3, L0749: 3, L0791: 2, L0438: 2, H0435: 2, L0779: 2, L0780: 2, S0192: 2, L0442: 1, S6024: 1, S0134: 1, H0583: 1, S0222: 1, H0421: 1, H0235: 1, H0620: 1, H0598: 1, H0059: 1, T0041: 1, S0426: 1, L0764: 1, L0662: 1, L0774: 1, L0805: 1, L0659: 1, L0809: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, H0659: 1, H0670: 1, H0648: 1, L0740: 1,		

HPAMC60	1039290	668	1 - 1242	2843	Pro-7 to Pro-17, Leu-20 to Gly-26, Leu-48 to Val-54, Pro-65 to Asn-70, Glu-90 to Ala-95, Ala-102 to Gln-116, Glu-122 to Leu-137, Val-183 to Leu-192, Ala-235 to Ile-256, Gly-264 to Asp-270, Phe-282 to Ile-288, Arg-309 to Ala-314, Asn-330 to Asp-336, Ala-338 to Asp-344, Lys-358 to Lys-367.	L0750: 1, L0758: 1, S0106: 1 and S0446: 1. H0682: 1	15q22	102578, 109700, 151670, 154550, 601780	
HLMHM83	1039491	669	155 - 745	2844	Val-43 to Tyr-48, Pro-50 to Ser-57, Thr-75 to Gly-83, Tyr-95 to Asn-105, Tyr-155 to Trp-163.	H0617: 7, L0771: 6, S0408: 4, S0358: 3, H0638: 2, L0761: 2, L0764: 2, L0655: 2, L0634: 2, L0666: 2, H0435: 2, L0751: 2, L0777: 2, H0506: 2, H0650: 1, H0254: 1, H0255: 1, S0444: 1, H0351: 1, H0549: 1, H0600: 1, H0592: 1, L0022: 1, H0744: 1,			

HOUDK70	1039538	670	84 - 1142	2845	<p>Phe-27 to Gly-32, Tyr-45 to Glu-57, Gly-80 to Asn-89, Ser-182 to Pro-187, Asp-270 to Ser-278, Tyr-288 to Trp-293.</p>	<p>H0204: 1, H0231: 1, S0440: 1, L0800: 1, L0643: 1, L0648: 1, L0662: 1, L0776: 1, L0664: 1, S0216: 1, H0690: 1, H0672: 1, S0378: 1, S0406: 1, H0555: 1, L0747: 1 and S0436: 1.</p>			
						<p>L0748: 13, L0731: 8, H0046: 7, L0740: 7, L0758: 7, L0766: 6, L0665: 5, L0747: 5, L0749: 5, H0135: 4, L0769: 4, L0776: 4, L0659: 4, L0438: 4, L0752: 4, L0757: 4, S0436: 4, H0265: 3, S0222: 3, S0474: 3, H0424: 3, H0040: 3, L0662: 3, L0783: 3, H0672: 3, H0521: 3, L0439: 3, L0750: 3, H0556: 2, H0717: 2, L0415: 2, S0360: 2, H0486: 2, H0575: 2, H0581: 2, H0251: 2, L0738: 2, L0483: 2, H0494: 2, S0440: 2, L0761: 2, L0794: 2.</p>			

L0652: 2, L0654: 2, L0666: 2, H0659: 2, L0754: 2, L0485: 2, L0608: 2, L0601: 2, S0026: 2, H0423: 2, H0686: 1, S0040: 1, H0657: 1, S0212: 1, H0662: 1, S0420: 1, S0442: 1, S0358: 1, S0444: 1, T0008: 1, H0728: 1, S0045: 1, S0476: 1, S6026: 1, L0717: 1, H0550: 1, H0392: 1, H0333: 1, H0632: 1, T0040: 1, H0250: 1, H0156: 1, H0599: 1, H0706: 1, H0421: 1, H0597: 1, H0009: 1, L0471: 1, H0620: 1, H0015: 1, H0051: 1, S0051: 1, H0083: 1, S0250: 1, H0428: 1, T0006: 1, H0553: 1, H0617: 1, H0673: 1, H0169: 1, H0674: 1, H0068: 1, H0316: 1, H0412: 1, H0413: 1, H0561: 1, H0509: 1, H0641: 1, H0633: 1, H0647: 1,					
--	--	--	--	--	--

HCYBI10	1039579	671	2 - 1042	2846	Pro-29 to Ile-35, Gly-49 to Thr-90, Pro-113 to Val-123, Glu-129 to Lys-146, Glu-151 to Arg-163, Leu-166 to Arg-179.	S0144: 1, S0422: 1, L0640: 1, L0770: 1, L0772: 1, L0373: 1, L0646: 1, L0645: 1, L0768: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0655: 1, L0661: 1, L0809: 1, L5622: 1, L0663: 1, H0144: 1, H0724: 1, H0593: 1, H0690: 1, H0684: 1, H0435: 1, H0658: 1, H0670: 1, H0648: 1, S0330: 1, S0406: 1, H0447: 1, S3012: 1, L0743: 1, L0744: 1, L0751: 1, L0777: 1, L0780: 1, L0755: 1, L0759: 1, H0665: 1 and H0543: 1.	17q23-q24	106180, 115660, 138700, 139250, 148500, 150200, 154275, 162100, 170500, 170500,
---------	---------	-----	----------	------	--	---	-----------	--

								H0046: 1, H0687: 1, L0369: 1, L0770: 1, L0769: 1, L0772: 1, L0800: 1, L0806: 1, L0518: 1, L0809: 1, L0788: 1, H0144: 1, L0438: 1, H0660: 1, H0666: 1, H0648: 1, L0439: 1, L0747: 1, L0750: 1, L0756: 1, L0752: 1, L0759: 1, S0434: 1 and S0436: 1.		170500, 176960, 182452, 230200, 249000, 253250
HMEFK29	1039652	672	643 - 999	2847				H0402: 2, H0570: 1, H0266: 1 and H0666: 1.		
HAOSK79	1039663	673	48 - 659	2848	Asp-10 to Gly-17, Asp-38 to Ser-44, Asn-70 to Thr-79, Gly-81 to Ser-91, Lys-94 to Ala-102, Asp-110 to Ile-116, Asp-152 to Leu-157, Pro-172 to Glu-177.		L0748: 28, L0758: 13, L0769: 7, L0766: 7, S0026: 7, L0749: 6, H0266: 5, H0616: 4, L0750: 4, L0362: 4, H0341: 3, H0658: 3, L0747: 3, H0686: 2, H0318: 2, H0413: 2, H0494: 2, L0646: 2, H0659: 2, L0751: 2, L0731: 2, L0759: 2, L0588: 2, T0002: 1, H0656: 1, H0484: 1, H0661: 1, L0481: 1, H0125: 1, S0045: 1, H0351: 1, H0013: 1,			

HPDRV42	1039689	674	3 - 1649	2849	<p>Glu-31 to Pro-39, Thr-75 to Glu-80, Ala-131 to Gly-140, Ala-156 to Ala-165, Arg-184 to Phe-189, Asn-221 to Phe-228, Glu-239 to Glu-245, Ser-253 to Asp-261, Thr-267 to Thr-272, Thr-292 to Asp-297, Tyr-313 to Asn-325, Glu-385 to Leu-393,</p>	<p>L0021: 1, L0471: 1, H0267: 1, H0252: 1, H0068: 1, H0038: 1, H0087: 1, H0412: 1, H0366: 1, L0772: 1, L0373: 1, L0775: 1, L0806: 1, L0776: 1, L0655: 1, L0657: 1, S0053: 1, H0144: 1, H0547: 1, H0660: 1, H0648: 1, S0152: 1, H0521: 1, S3014: 1, L0743: 1, L0740: 1, L0756: 1, L0777: 1, L0753: 1, L0757: 1, H0445: 1, L0608: 1, H0653: 1, H0136: 1, S0276: 1 and H0543: 1, H0521: 23, S0360: 15, H0046: 14, S0126: 13, L0747: 12, H0551: 11, H0318: 10, S0328: 9, H0542: 9, H0580: 8, H0486: 8, H0581: 8, H0615: 8, S0440: 8, H0660: 8, S0434: 8, H0543: 8, L0664: 7, H0556: 6, S0212: 6, H0494: 6, L0663: 6, S0358: 5, S0476: 5,</p>	15q15	<p>177070, 177070, 182500, 218000, 227220, 243500, 600839, 601800</p>
---------	---------	-----	----------	------	--	--	-------	---

Tyr-400 to Lys-410, Pro-413 to Gly-420, Lys-454 to Leu-463, Pro-501 to Gly-514, Gln-535 to Leu-549.	H0013: 5, H0457: 5, H0553: 5, H0673: 5, H0696: 5, S0406: 5, L0740: 5, L0731: 5, L0596: 5, H0585: 4, H0661: 4, S0418: 4, S0356: 4, S0408: 4, H0575: 4, H0620: 4, H0617: 4, L0764: 4, L0666: 4, L0665: 4, H0519: 4, S014: 4, S0027: 4, L0752: 4, H0265: 3, H0713: 3, H0657: 3, H0341: 3, H0671: 3, H0638: 3, S0420: 3, S0354: 3, H0619: 3, H0411: 3, H0370: 3, H0586: 3, H0587: 3, H0597: 3, L0471: 3, H0687: 3, S0250: 3, S0003: 3, S0142: 3, H0529: 3, L0662: 3, L0766: 3, L0651: 3, L0659: 3, H0690: 3, S0152: 3, H0436: 3, S0028: 3, L0748: 3, L0750: 3, L0779: 3, L0755: 3, L0757: 3, H0445: 3, S0011: 3, H0423: 3,
---	---

	H0686: 2, T0049: 2, S0134: 2, S0116: 2, H0663: 2, H0662: 2, S0444: 2, S0045: 2, S0046: 2, S0132: 2, S0278: 2, H0549: 2, H0550: 2, H0497: 2, H0156: 2, H0599: 2, H0263: 2, H0544: 2, H0012: 2, H0014: 2, S0314: 2, H0428: 2, H0039: 2, H0135: 2, H0087: 2, H0623: 2, H0059: 2, H0100: 2, H0509: 2, S0150: 2, H0641: 2, S0144: 2, S0210: 2, S0002: 2, L0763: 2, L4497: 2, L0768: 2, L0774: 2, L0653: 2, L0654: 2, L0527: 2, L0657: 2, H0144: 2, S0374: 2, H0691: 2, H0520: 2, H0593: 2, H0689: 2, H0435: 2, H0658: 2, S0330: 2, S0378: 2, S0380: 2, L0754: 2, L0756: 2, L0758: 2, L0591: 2, L0485: 2, L0599: 2, S0026: 2,	
--	--	--

	H0667: 2, S0192: 2, H0422: 2, H0506: 2, L0600: 2, H0171: 1, T0002: 1, H0717: 1, H0716: 1, H0295: 1, H0650: 1, S0180: 1, H0484: 1, H0483: 1, H0306: 1, S0442: 1, S0376: 1, H0675: 1, S0410: 1, H0489: 1, H0637: 1, S0007: 1, H0645: 1, H0393: 1, L0717: 1, S0222: 1, H0392: 1, H0415: 1, H0601: 1, H0600: 1, H0574: 1, T0039: 1, H0244: 1, H0427: 1, S0280: 1, H0098: 1, H0042: 1, T0082: 1, H0036: 1, S0346: 1, H0705: 1, H0505: 1, H0309: 1, H0545: 1, L0041: 1, H0015: 1, H0373: 1, S0051: 1, H0071: 1, H0510: 1, H0375: 1, S0318: 1, S0022: 1, H0252: 1, H0688: 1, H0644: 1, H0628: 1, L0055: 1, H0032: 1, H0169: 1,						
--	--	--	--	--	--	--	--

	H0124: 1, S0366: 1, S0036: 1, H0090: 1, H0634: 1, H0616: 1, T0067: 1, H0264: 1, H0488: 1, H0412: 1, H0413: 1, T0042: 1, L0475: 1, H0560: 1, S0294: 1, S0450: 1, H0633: 1, H0647: 1, S0344: 1, H0538: 1, S0422: 1, L0598: 1, L0371: 1, L0770: 1, L0638: 1, L0637: 1, L3904: 1, L0772: 1, L0646: 1, L0648: 1, L0767: 1, L0364: 1, L0649: 1, L0381: 1, L0655: 1, L0661: 1, L4669: 1, L0635: 1, L0526: 1, L0783: 1, L0647: 1, L0789: 1, L4559: 1, S0428: 1, H0697: 1, H0702: 1, H0703: 1, H0547: 1, H0682: 1, H0683: 1, H0670: 1, H0648: 1, H0672: 1, H0539: 1, H0710: 1, H0522: 1, S0404: 1, H0555: 1, S0392: 1, H0626: 1,					
--	--	--	--	--	--	--

									H0627: 1, L0612: 1, S0206: 1, L0743: 1, L0439: 1, L0751: 1, L0753: 1, L0759: 1, S0260: 1, H0444: 1, L0608: 1, L0593: 1, H0668: 1, H0665: 1, S0242: 1, S0194: 1, S0196: 1, S0424: 1, H0008: 1, H0352: 1 and H0712: 1.		
HOPJD35	1039703	675	2590 - 1349	2850	Ser-1 to Pro-16, Asn-40 to Gly-46, Pro-48 to Arg-53, Lys-64 to Pro-72, Val-87 to Asp-93, Asp-109 to Tyr-118, Glu-157 to Pro-172, Pro-178 to Gly-188, Glu-252 to Leu-263, Thr-266 to Leu-273, Glu-296 to Ala-310, Glu-312 to Gln-318, Glu-324 to Asn-340, Glu-344 to Gly-373, Glu-383 to Asn-395, Val-399 to Glu-414.	L0662: 7, H0013: 5, L0766: 5, L0803: 4, L0655: 4, L0665: 4, L0740: 4, L0731: 4, H0677: 4, T0042: 3, L0776: 3, L0809: 3, H0519: 3, L0750: 3, L0759: 3, H0543: 3, H0170: 2, L0470: 2, H0341: 2, S0360: 2, H0266: 2, H0551: 2, L0351: 2, H0529: 2, L0646: 2, L0521: 2, L0651: 2, L0659: 2, L0663: 2, L0664: 2, H0547: 2, H0659: 2, L0602: 2, H0518: 2, H0522: 2, S0406: 2, L0748: 2, L0747: 2,					

L0591: 2, H0542: 2, H0506: 2, H0171: 1, H0265: 1, T0002: 1, H0713: 1, H0125: 1, S0418: 1, S0358: 1, T0008: 1, H0351: 1, S0222: 1, H0431: 1, H0415: 1, H0586: 1, H0427: 1, S0280: 1, L0021: 1, T0082: 1, S0010: 1, H0581: 1, H0566: 1, L0471: 1, H0620: 1, H0024: 1, H0014: 1, H0687: 1, S0250: 1, H0328: 1, H0428: 1, H0039: 1, H0553: 1, H0090: 1, H0591: 1, H0616: 1, H0379: 1, H0056: 1, T0041: 1, H0494: 1, L0475: 1, S0014: 1, H0560: 1, L0065: 1, S0440: 1, H0509: 1, H0641: 1, S0422: 1, L0369: 1, L0502: 1, L0763: 1, L0770: 1, L0638: 1, L0761: 1, L0373: 1, L0773: 1, L0794: 1, L0381: 1, L0774: 1, L0805: 1,
--

HTFNP84	1039748	676	70 - 1227	2851	Tyr-11 to Val-16, Glu-37 to Arg-42, Asn-50 to Arg-58, Leu-82 to Leu-96, Glu-112 to Gln-120.	L0527: 1, L0658: 1, L0529: 1, L0789: 1, L0791: 1, L4501: 1, L0666: 1, S0374: 1, L0565: 1, H0723: 1, S0126: 1, H0684: 1, H0435: 1, H0651: 1, S0330: 1, S0378: 1, S0152: 1, H0521: 1, S0044: 1, H0555: 1, H0631: 1, L0749: 1, L0756: 1, L0786: 1, L0755: 1, L0758: 1, S0031: 1, H0445: 1, L0588: 1, L0605: 1, L0608: 1, L0595: 1 and H0653: 1.		
						AR096: 1, AR089: 1, AR055: 1, AR053: 1, AR033: 1, AR061: 1, AR060: 0, AR104: 0, AR039: 0, AR052: 0 L0766: 16, S0440: 7, L0646: 7, H0547: 6, H0659: 5, L0749: 5, L0759: 5, H0650: 4, S0410: 4, S0422: 4, S0374: 4, H0341: 3, H0032: 3, H0040: 3, H0529: 3, L0804: 3,		

H0520: 3, H0435: 3, H0658: 3, H0521: 3, S0406: 3, L0748: 3, H0423: 3, S0424: 3, H0170: 2, H0657: 2, S0418: 2, S0280: 2, H0266: 2, H0598: 2, H0090: 2, H0616: 2, L0763: 2, L0803: 2, L0666: 2, L0663: 2, H0660: 2, H0672: 2, L0756: 2, L0757: 2, S0026: 2, H0556: 1, H0686: 1, H0656: 1, S0001: 1, H0662: 1, S0420: 1, S0358: 1, S0376: 1, S0444: 1, H0728: 1, S0045: 1, L0717: 1, H0574: 1, H0486: 1, H0318: 1, H0596: 1, T0110: 1, L0471: 1, H0024: 1, H0014: 1, H0083: 1, H0510: 1, S0250: 1, S0003: 1, H0428: 1, H0591: 1, H0634: 1, H0551: 1, H0560: 1, H0625: 1, H0641: 1, H0647: 1, L0520: 1, L0769: 1, L0761: 1,	
--	--

							L0764: 1, L0521: 1, L0662: 1, L0774: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0606: 1, L0659: 1, L0635: 1, L0809: 1, L0367: 1, L0789: 1, L0665: 1, H0519: 1, H0684: 1, H0670: 1, H0666: 1, H0710: 1, H0704: 1, H0134: 1, H0555: 1, L0439: 1, L0750: 1, L0779: 1, L0777: 1, L0752: 1, L0755: 1, L0758: 1, S0436: 1, L0608: 1, L0362: 1, H0667: 1, S0196: 1, H0542: 1, H0543: 1, H0422: 1 and H0352: 1.			
HTHDT76	1039871	677	1 - 603	2852	Gln-16 to Ser-24.	S0420: 1, H0600: 1, H0587: 1, H0013: 1, H0428: 1, H0644: 1, H0063: 1, H0386: 1 and L0747: 1.				
HSYEC21	1039891	678	411 - 2372	2853		H0521: 9, L0439: 9, L0747: 8, L0655: 6, L0748: 6, S0212: 5, S6028: 4, L0483: 4, L0794: 4, L0766: 4,	12q21-q23	124200, 147440, 160781, 217300, 235800,		

600175, 600808	H0040: 3, H0634: 3, S0386: 3, L0800: 3, L0662: 3, L0665: 3, L0438: 3, S0028: 3, L0740: 3, H0318: 2, H0544: 2, S0051: 2, H0615: 2, H0163: 2, H0494: 2, L0645: 2, L0649: 2, L0803: 2, L0804: 2, L0659: 2, H0547: 2, H0689: 2, S0380: 2, H0522: 2, L0743: 2, L0744: 2, L0749: 2, L0596: 2, L0366: 2, S0242: 2, S0114: 1, H0583: 1, H0650: 1, H0656: 1, H0341: 1, S0001: 1, H0483: 1, H0402: 1, H0638: 1, S0356: 1, S0354: 1, S0358: 1, S0408: 1, H0580: 1, L0103: 1, S0045: 1, H0640: 1, H0586: 1, H0360: 1, H0643: 1, H0486: 1, H0013: 1, H0036: 1, H0263: 1, H0546: 1, H0012: 1, S0050: 1, S0388: 1, H0399: 1, H0510: 1,
-------------------	--

HKGCO25	1040384	679	3 - 719	2854	Glu-53 to Phe-58, Arg-70 to Phe-79, Ile-94 to Val-102, Thr-106 to Thr-118, Glu-139 to Asp-149, Asp-183 to Lys-215.	H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0428: 1, T0006: 1, H0591: 1, H0551: 1, T0067: 1, H0412: 1, H0560: 1, H0641: 1, S0210: 1, S0426: 1, L0606: 1, L0657: 1, L0518: 1, L0545: 1, H0144: 1, H0519: 1, S0126: 1, S0378: 1, H0436: 1, S3014: 1, L0750: 1, L0756: 1, L0779: 1, L0780: 1, L0758: 1, L0759: 1, H0668: 1 and S0026: 1.		
HNOJN70	1040385	680	273 - 425	2855		L0766: 12, L0759: 8, H0171: 6, L0754: 6, L0731: 6, H0624: 5, H0584: 5, H0031: 5, S0422: 5, L0663: 5, H0547: 5, L0756: 5, S0276: 5, H0686: 4, S0474: 4, L0662: 4,		

								L0777: 4, L0758: 4, H0170: 3, L0717: 3, H0457: 3, H0090: 3, L0770: 3, L0794: 3, L0650: 3, L0805: 3, L0655: 3, L0659: 3, L0666: 3, H0520: 3, H0543: 3, S0412: 3, H0657: 2, H0341: 2, H0306: 2, H0402: 2, S0358: 2, S0360: 2, H0574: 2, T0060: 2, H0318: 2, L0163: 2, H0328: 2, L0483: 2, H0591: 2, L0637: 2, L0646: 2, L0771: 2, L0521: 2, L0649: 2, L0803: 2, L0657: 2, L0656: 2, L0517: 2, L0789: 2, H0539: 2, H0521: 2, L0742: 2, L0439: 2, L0751: 2, L0747: 2, L0752: 2, L0592: 2, L0599: 2, L0594: 2, L0362: 2, H0556: 1, H0167: 1, H0685: 1, H0344: 1, H0650: 1, S0116: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1,					
--	--	--	--	--	--	--	--	--	--	--	--	--	--

	H0580: 1, S0045: 1, S0046: 1, S6026: 1, H0351: 1, S0222: 1, H0438: 1, H0486: 1, H0427: 1, L0021: 1, H0097: 1, H0004: 1, H0581: 1, L0041: 1, H0050: 1, L0471: 1, H0023: 1, H0057: 1, H0015: 1, H0051: 1, H0266: 1, S0336: 1, H0687: 1, S0003: 1, S0214: 1, H0622: 1, H0674: 1, H0040: 1, H0616: 1, H0413: 1, T0069: 1, H0100: 1, H0494: 1, H0561: 1, L0065: 1, H0509: 1, H0646: 1, L0598: 1, L0763: 1, L0769: 1, L0638: 1, L0796: 1, L0761: 1, L0641: 1, L0643: 1, L0549: 1, L0498: 1, L0375: 1, L0776: 1, L0527: 1, L0526: 1, L0518: 1, L0783: 1, L0809: 1, L0664: 1, H0144: 1, S0374: 1, T0068: 1, L0438: 1, L0352: 1,					
--	--	--	--	--	--	--

HADFS31	1040388	681	440 - 832	2856	Ser-23 to Ser-34, Lys-48 to Glu-53, Cys-78 to Asn-88, Ala-108 to Asp-113, Glu-124 to Pro-131.	H0519: 1, H0593: 1, H0682: 1, H0658: 1, S0328: 1, H0518: 1, H0694: 1, H0626: 1, S0028: 1, L0743: 1, L0740: 1, L0745: 1, L0750: 1, L0780: 1, H0445: 1, L0588: 1, L0593: 1, L0595: 1, S0026: 1, H0423: 1 and S0424: 1.		
						L0439: 13, L0438: 8, L0731: 7, L0756: 6, L0803: 4, L0754: 4, L0750: 4, S0358: 3, H0716: 2, H0427: 2, L0766: 2, L0659: 2, L0783: 2, H0435: 2, H0660: 2, L0755: 2, L0758: 2, S0436: 2, S0342: 1, H0650: 1, L0443: 1, S0442: 1, S0360: 1, H0587: 1, H0632: 1, L0021: 1, T0082: 1, H0051: 1, S6028: 1, H0090: 1, H0646: 1, L0640: 1, L0770: 1, L0794: 1, L0804: 1, L0805: 1, L0809: 1, L0647: 1,		

HJBDC89	1040569	682	1418 - 726	2857	Gly-11 to Pro-17, Ser-61 to Gly-68, Val-103 to Leu-108, His-157 to Pro-162, Glu-197 to Pro-203, Gly-207 to Thr-213.	L0789: 1, L0666: 1, L0663: 1, H0690: 1, H0659: 1, H0670: 1, S0328: 1, S0028: 1, L0747: 1 and L0752: 1. L0439: 5, L0749: 5, L0770: 4, L0764: 4, L0438: 4, S0126: 4, L0758: 4, S0358: 3, L0768: 3, L0774: 3, L0783: 3, H0660: 3, S0152: 3, L0752: 3, L0755: 3, L0731: 3, L0592: 3, S0026: 3, H0656: 2, S0360: 2, S0010: 2, H0050: 2, H0169: 2, T0042: 2, L0775: 2, L0518: 2, L0809: 2, L0664: 2, L0665: 2, H0672: 2, L0754: 2, H0543: 2, L0615: 1, H0686: 1, S0116: 1, S0420: 1, S0408: 1, T0112: 1, H0156: 1, H0575: 1, H0706: 1, H0546: 1, H0572: 1, H0123: 1, L0471: 1, H0024: 1, H0373: 1, S0388: 1, T0010: 1, H0510: 1,	14q24.1- q24.3	104311, 109150, 182600, 245200, 601208
---------	---------	-----	------------	------	--	---	-------------------	--

HTAIX75	1040591	683	129 - 557	2858	Lys-34 to His-39.	S0003: 1, H0424: 1, H0031: 1, H0553: 1, H0165: 1, H0673: 1, H0708: 1, S0036: 1, H0040: 1, T0067: 1, H0488: 1, H0412: 1, S0039: 1, H0494: 1, H0509: 1, H0132: 1, S0144: 1, H0538: 1, H0529: 1, L0520: 1, L0800: 1, L0773: 1, L0794: 1, L0803: 1, L0804: 1, L0659: 1, L0528: 1, S0374: 1, S0148: 1, H0682: 1, H0696: 1, S0044: 1, L0748: 1, L0751: 1, L0745: 1, L0757: 1, H0445: 1, S0276: 1 and S0196: 1.		
						AR055: 14, AR033: 8, AR052: 8, AR096: 7, AR053: 7, AR061: 7, AR089: 6, AR060: 6, AR104: 3, AR039: 2 L0662: 2, L0804: 2, L0748: 2, L0439: 2, L0779: 2, S0360: 1, H0635: 1, H0457: 1, H0179: 1, L0763: 1.		

								L0646: 1, L0645: 1, L0766: 1, L0659: 1 and H0658: 1.			
HODBO29	1040620	684	3 - 413	2859				H0373: 2, H0328: 2, H0428: 2, L0769: 2, L0439: 2, T0002: 1, S0376: 1, H0489: 1, S0278: 1, H0550: 1, H0253: 1, H0052: 1, H0063: 1, H0131: 1, L0764: 1, L0766: 1, L0352: 1, S0126: 1, S0380: 1, L0740: 1, L0747: 1, L0752: 1, L0592: 1, L0595: 1 and H0542: 1.			
HOCOF27	1040631	685	76 - 687	2860				H0264: 1, L0766: 1, H0660: 1 and H0539: 1.			
HSPSE88	1040694	686	2 - 922	2861				L0749: 7, S0026: 6, H0616: 4, L0766: 4, L0803: 4, L0665: 4, L0748: 4, L0740: 4, H0624: 3, H0170: 3, H0657: 3, S0358: 3, S0003: 3, L0455: 3, L0498: 3, L0809: 3, L0666: 3, H0659: 3, H0423: 3, S0442: 2, H0083: 2, H0038: 2, L0500: 2, L0764: 2,	11p15	108985, 186921, 602092	

	L0499: 2, L0804: 2, L0775: 2, L0806: 2, L0509: 2, L0607: 2, L0657: 2, L0493: 2, L0513: 2, H0690: 2, L0602: 2, L0777: 2, L0752: 2, L0759: 2, L0600: 2, H0171: 1, H0713: 1, H0716: 1, L0002: 1, H0650: 1, H0341: 1, S0001: 1, H0638: 1, S0444: 1, S0408: 1, S0222: 1, H0486: 1, H0156: 1, L0021: 1, H0042: 1, H0253: 1, H0263: 1, H0544: 1, H0545: 1, H0271: 1, S0336: 1, S0022: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, L0483: 1, H0673: 1, H0124: 1, S0036: 1, H0090: 1, H0040: 1, H0063: 1, H0551: 1, T0067: 1, T0041: 1, H0647: 1, L0520: 1, L0761: 1, L0800: 1, L0374: 1, L0662: 1, L0768: 1, L0381: 1, L0533: 1,	
--	--	--

									L0651: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0512: 1, L0659: 1, L0547: 1, L0783: 1, L0383: 1, L0663: 1, S0374: 1, L0352: 1, H0547: 1, H0593: 1, H0682: 1, H0683: 1, H0684: 1, H0696: 1, S0146: 1, H0187: 1, H0478: 1, S3012: 1, L0786: 1, L0757: 1, S0434: 1, L0592: 1, L0485: 1, L0599: 1, L0608: 1, L0594: 1, S0276: 1, S0460: 1 and H0506: 1.			
HSKXM78	1040826	687	1 - 354	2862	Pro-19 to Asn-26, His-58 to Pro-63.				H0556: 2, H0650: 1, S0376: 1, S0474: 1, H0038: 1, H0529: 1, H0683: 1, S3014: 1, S0206: 1, L0740: 1 and L0591: 1.			
HNLMB92	1040913	688	352 - 753	2863	Ala-1 to Gly-21, Pro-28 to Gln-35.				S0358: 8, S0010: 5, S3014: 5, S0126: 4, H0333: 3, T0067: 3, H0547: 3, L0747: 3, S0045: 2, H0486: 2, H0599: 2, S0346: 2, L0471: 2, H0428: 2,	X		

HE8ON57	1040925	689	577 - 149	2864	Pro-18 to Asp-25.	H0616: 2, H0658: 2, S0028: 2, L0742: 2, H0170: 1, S0116: 1, H0449: 1, S0418: 1, S6026: 1, H0550: 1, S0222: 1, H0438: 1, T0040: 1, H0013: 1, H0156: 1, T0082: 1, H0196: 1, H0251: 1, H0530: 1, H0150: 1, H0023: 1, H0266: 1, H0687: 1, H0615: 1, T0006: 1, H0031: 1, H0068: 1, H0551: 1, H0100: 1, T0041: 1, S0150: 1, H0652: 1, S0144: 1, H0529: 1, L0543: 1, H0144: 1, S0374: 1, H0691: 1, H0520: 1, H0689: 1, H0684: 1, H0670: 1, H0660: 1, H0672: 1, H0539: 1, S3012: 1, S0027: 1, L0744: 1, L0754: 1, L0749: 1, L0750: 1, L0752: 1, L0755: 1, L0731: 1, L0757: 1 and S0194: 1.		
						H0619: 1, H0013: 1, L0794: 1 and L0788: 1.		

HOCOC14	1040932	690	494 - 1384	2865	Leu-32 to Lys-43, Phe-92 to Arg-98, Glu-118 to Thr-136, Pro-173 to Tyr-178, Pro-215 to Asn-222, Leu-230 to Asn-235	H0556: 8, L0758: 7, L0593: 7, H0542: 7, L0601: 6, L0747: 5, H0618: 4, H0620: 4, H0617: 4, H0494: 4, L0439: 4, L0751: 4, S0420: 3, S0046: 3, H0622: 3, H0087: 3, L0766: 3, H0690: 3, H0670: 3, S0328: 3, L0748: 3, L0754: 3, L0731: 3, H0543: 3, H0265: 2, H0650: 2, H0484: 2, H0255: 2, S0418: 2, H0549: 2, H0333: 2, H0024: 2, H0551: 2, S0150: 2, L0764: 2, L0662: 2, L0375: 2, L0663: 2, L0665: 2, H0660: 2, H0521: 2, S0146: 2, L0741: 2, L0779: 2, L0361: 2, L0603: 2, H0422: 2, H0170: 1, S0040: 1, H0295: 1, H0294: 1, H0657: 1, H0656: 1, H0341: 1, S0212: 1, H0661: 1, S0442: 1, S0354: 1, S0360: 1, L0717: 1,	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
---------	---------	-----	------------	------	---	--	---------	--

	S0278: 1, H0437: 1, H0550: 1, H0438: 1, H0592: 1, H0497: 1, H0486: 1, H0101: 1, H0013: 1, H0575: 1, H0253: 1, H0581: 1, H0052: 1, H0251: 1, H0309: 1, H0204: 1, H0545: 1, H0041: 1, H0009: 1, H0081: 1, H0014: 1, H0083: 1, H0354: 1, H0266: 1, H0687: 1, H0292: 1, H0284: 1, H0039: 1, H0553: 1, H0606: 1, H0166: 1, H0068: 1, H0135: 1, H0040: 1, H0268: 1, H0412: 1, S0038: 1, H0100: 1, T0041: 1, H0280: 1, H0429: 1, H0561: 1, S0440: 1, H0641: 1, S0144: 1, S0210: 1, S0002: 1, L0640: 1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0642: 1, L0771: 1, L0648: 1, L0774: 1, L0655: 1, L0629: 1, L0658: 1, L0809: 1,					
--	--	--	--	--	--	--

							L0789: 1, L0790: 1, L0666: 1, L0664: 1, H0547: 1, H0593: 1, H0689: 1, H0684: 1, S0330: 1, H0539: 1, S0152: 1, H0522: 1, H0134: 1, S0406: 1, H0555: 1, H0627: 1, L0743: 1, L0750: 1, L0756: 1, L0752: 1, L0757: 1, S0434: 1, S0436: 1, S0276: 1, H0423: 1 and S0424: 1.			
HOGDP49	1041049	691	1 - 489	2866	Pro-6 to Gly-12, Ala-30 to Arg-35, Arg-90 to Thr-102, Phe-112 to Asp-120, Asn-157 to Thr-163.		H0265: 2, H0556: 1, S0418: 1, S0376: 1, T0060: 1, S0280: 1, H0615: 1, H0628: 1, H0059: 1, H0100: 1, L0438: 1, S0126: 1, H0435: 1 and H0660: 1. H0415: 2			
HOFMK22	1041070	692	3 - 359	2867	Asp-22 to Val-42, Phe-50 to Tyr-55, Leu-65 to Gln-70.					
HBGNT69	1041900	693	808 - 383	2868	Glu-20 to Ser-27, Ala-49 to Pro-55, Phe-66 to Asp-71, Ala-77 to Val-83, Pro-85 to Tyr-103, Pro-135 to Ala-142.		H0052: 3, H0617: 3, H0135: 3, H0012: 2, H0253: 1, S0210: 1, L0659: 1 and L0779: 1.			
HSPSI42	1042462	694	3684 - 283	2869	Pro-5 to Ser-12,		L0666: 16, L0751: 15, Xpl1.23			300047,

Arg-20 to Lys-35, Gly-45 to Gly-56, Pro-81 to Cys-99, Arg-195 to Ser-207, Ser-287 to Pro-292, Thr-301 to Gly-306, Asn-336 to Met-341, Ser-357 to Arg-364, Cys-416 to Asp-430, Gln-450 to Asp-455, Pro-509 to Thr-516, Arg-523 to Gly-529, Lys-541 to Lys-546, Ser-623 to Arg-634, Tyr-636 to Gln-642, Asp-661 to Leu-671, Glu-692 to Lys-703, Gln-734 to Tyr-742, Thr-792 to Ile-798, Pro-806 to Thr-811, Phe-875 to Gly-880, Ser-886 to Gln-891, Val-897 to Glu-903, Glu-926 to Asn-932, Arg-945 to Asp-950, Pro-952 to Lys-958, Gly-991 to Gly-1001, Pro-1019 to Trp-	L0596: 8, S0010: 7, L0754: 7, L0731: 7, L0758: 7, L0595: 7, S0007: 6, L0741: 6, L0591: 6, H0556: 5, H0622: 5, L0662: 5, L0665: 5, L0743: 5, L0748: 5, L0745: 5, L0747: 5, H0657: 4, L0771: 4, L0663: 4, L0664: 4, H0689: 4, L0742: 4, L0439: 4, L0592: 4, L0362: 4, S0276: 4, H0661: 3, H0176: 3, H0545: 3, H0178: 3, H0424: 3, L0369: 3, L0766: 3, L0659: 3, H0547: 3, S0406: 3, L0750: 3, L0599: 3, L0361: 3, L0601: 3, H0543: 3, T0049: 2, H0484: 2, S0420: 2, S0360: 2, L0717: 2, H0370: 2, H0333: 2, H0635: 2, H0318: 2, H0196: 2, H0085: 2, H0546: 2, H0050: 2, T0010: 2, H0428: 2, H0213: 2, H0674: 2, H0591: 2,	300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
--	--	---

1028, Lys-1082 to Met- 1091, Val-1098 to Gly- 1104, Cys-1116 to Glu- 1122.	H0100: 2, S0142: 2, L5575: 2, L0372: 2, L0764: 2, L0774: 2, L0775: 2, L0378: 2, L0776: 2, L0657: 2, L0636: 2, H0144: 2, L0565: 2, H0690: 2, H0660: 2, S3014: 2, S0028: 2, L0746: 2, L0749: 2, L0752: 2, L0753: 2, S0436: 2, L0588: 2, L0608: 2, S0026: 2, H0352: 2, H0395: 1, H0713: 1, L0785: 1, H0483: 1, S0418: 1, S0442: 1, H0733: 1, H0208: 1, S0045: 1, H0393: 1, H0351: 1, S0278: 1, H0549: 1, L0622: 1, T0039: 1, H0250: 1, H0618: 1, T0048: 1, H0581: 1, H0596: 1, L0040: 1, H0597: 1, H0544: 1, L0041: 1, H0086: 1, N0006: 1, H0620: 1, H0057: 1, H0051: 1, S0051: 1, H0083: 1, H0594: 1, H0188: 1, H0039: 1,
--	--

[illegible]

								L0759: 1, H0445: 1, L0587: 1, L0589: 1, L0593: 1, L0594: 1, S0106: 1, S0011: 1, H0136: 1, H0423: 1 and H0293: 1.			
HPDQD23	1042649	695	174 - 344	2870	Leu-17 to Glu-22, Pro-44 to Gly-51.			H0657: 4, H0687: 2, H0658: 2, H0422: 2, H0222: 1, H0581: 1, S0050: 1, H0412: 1, H0641: 1, H0538: 1, L0648: 1, L0662: 1, L0766: 1, L0775: 1, L0805: 1, L0809: 1, L0438: 1, H0689: 1, S0328: 1, H0525: 1, L0439: 1 and L0755: 1.			
HWMB10	1042859	696	39 - 476	2871	Pro-18 to Pro-24, Thr-45 to Gly-54, Ser-60 to Ser-67, Ala-82 to His-92, Pro-94 to Ser-106, Pro-126 to Arg-133.			S0410: 52, H0617: 5, L0774: 4, S0408: 3, H0360: 3, H0486: 3, L0809: 3, S0380: 3, L0751: 3, L0749: 3, L0361: 3, S0358: 2, S0376: 2, S0360: 2, L0764: 2, L0779: 2, L0752: 2, H0484: 1, H0483: 1, S0442: 1, H0734: 1, H0370: 1, H0257: 1, L0623: 1, H0599: 1, H0575: 1,	12q22	147440, 201470, 235800, 273300	

HACNG39	1042871	697	2534 - 900	2872	Asp-16 to Ser-25, Arg-52 to Lys-74, Ile-102 to Asn-109, Asp-138 to Gly-149, Ser-161 to Thr-168, Asn-225 to Arg-235, Asn-247 to Lys-256, His-302 to Cys-311, Ile-324 to Ser-347, Cys-355 to Tyr-361, Cys-365 to Pro-375, Ile-389 to Gln-398, Ile-429 to His-502, Thr-505 to Asp-533, Lys-539 to Ser-545.	H0706: 1, H0744: 1, H0231: 1, L0163: 1, H0083: 1, H0510: 1, H0606: 1, H0038: 1, T0067: 1, S0438: 1, S0422: 1, L0770: 1, L0803: 1, L0806: 1, L0776: 1, L0792: 1, L0793: 1, H0660: 1, S0406: 1, H0631: 1, L0750: 1, L0777: 1, H0445: 1, S0436: 1, H0543: 1 and S0424: 1.		
					L0805: 5, L0766: 4, H0341: 3, S0440: 3, H0650: 2, H0656: 2, H0156: 2, S0003: 2, H0591: 2, H0264: 2, H0560: 2, L0598: 2, S0374: 2, L0438: 2, L0749: 2, L0752: 2, H0423: 2, H0685: 1, H0449: 1, H0458: 1, L0005: 1, S0444: 1, S0408: 1, H0580: 1, H0619: 1, H0486: 1, H0013: 1, H0581: 1, H0194: 1, T0103: 1, H0083: 1, H0551: 1, H0477: 1, H0488: 1,			

HETKL27	1042951	698	32 - 676	2873	Arg-11 to Gly-36.	S0464: 1, L0773: 1, L0803: 1, L0776: 1, L0657: 1, L0789: 1, L0665: 1, H0547: 1, H0670: 1, S3012: 1, L0748: 1, L0779: 1, L0777: 1, L0758: 1, S0436: 1, S0194: 1 and H0422: 1.		
						AR089: 1, AR060: 1, AR055: 1, AR096: 1, AR053: 0, AR061: 0, AR033: 0, AR104: 0, AR039: 0 L0439: 19, H0046: 11, L0659: 8, L0752: 7, L0662: 6, H0435: 6, H0648: 6, L0803: 5, S0356: 4, S0440: 4, L0794: 4, L0663: 4, H0539: 4, S0152: 4, L0747: 4, L0779: 4, H0661: 3, S0360: 3, S0408: 3, H0598: 3, L0809: 3, L0665: 3, S0374: 3, L0438: 3, L0751: 3, L0731: 3, L0362: 3, H0171: 2, S0358: 2, S0376: 2, H0676: 2, H0393: 2,		

	H0586: 2, H0052: 2, T0067: 2, H0646: 2, L0646: 2, L0764: 2, L0364: 2, L0775: 2, L0806: 2, L0657: 2, L0788: 2, L0666: 2, H0659: 2, H0666: 2, S0330: 2, L0748: 2, L0745: 2, L0750: 2, L0777: 2, L0759: 2, L0599: 2, L0608: 2, L0411: 1, H0686: 1, S0444: 1, H0441: 1, H0333: 1, T0109: 1, L0022: 1, H0575: 1, S0010: 1, S0346: 1, H0596: 1, L0738: 1, S6028: 1, H0688: 1, T0023: 1, T0006: 1, H0644: 1, H0165: 1, H0040: 1, H0494: 1, S0466: 1, S0438: 1, L0762: 1, L0640: 1, L0772: 1, L0800: 1, L0648: 1, L0389: 1, L0805: 1, L0653: 1, L0776: 1, L0382: 1, L0789: 1, L0532: 1, L0664: 1, H0547: 1, H0689: 1, H0690: 1,					
--	--	--	--	--	--	--

HPCTH04	1043273	699	3 - 494	2874		H0684: 1, H0658: 1, S0380: 1, H0704: 1, S0168: 1, H0478: 1, S0037: 1, L0742: 1, L0749: 1, L0755: 1, S0434: 1, S0436: 1 and H0506: 1.			109400, 132800, 132800, 186855, 223900, 253800, 253800, 278700, 602088
						H0638: 73, H0641: 67, 9q31 S0358: 25, H0521: 24, L0747: 23, S0408: 17, S0360: 16, H0659: 14, L0748: 13, L0731: 13, H0250: 12, H0494: 12, L0757: 12, S0444: 11, S0026: 11, S0440: 10, S0328: 10, S0206: 9, S0132: 8, S0144: 8, S0007: 7, H0574: 7, S0374: 7, S0126: 7, S0330: 7, L0754: 7, L0749: 7, H0140: 6, H0545: 6, H0316: 6, S0142: 6, L0775: 6, H0522: 6, S0242: 6, H0657: 5, S0046: 5, H0486: 5, S0406: 5, S0027: 5, L0750: 5, S0040: 4, S0442: 4, H0546: 4, H0684: 4, H0648: 4, S3012: 4,			

			S3014: 4, L0742: 4, L0740: 4, L0756: 4, L0752: 4, L0755: 4, L0758: 4, H0686: 3, H0341: 3, H0664: 3, S0222: 3, H0592: 3, H0331: 3, T0109: 3, T0115: 3, H0046: 3, H0014: 3, S0003: 3, L0809: 3, H0547: 3, H0660: 3, H0667: 3, H0542: 3, H0171: 2, T0049: 2, H0663: 2, S0420: 2, S0356: 2, H0580: 2, S0045: 2, S0278: 2, H0537: 2, H0333: 2, H0069: 2, H0427: 2, H0098: 2, H0597: 2, H0544: 2, H0150: 2, L0471: 2, H0060: 2, H0109: 2, H0266: 2, H0644: 2, H0032: 2, S0438: 2, H0633: 2, L0762: 2, L0769: 2, L0372: 2, L0662: 2, L0806: 2, L0789: 2, L0666: 2, H0682: 2, H0670: 2, L0602: 2, H0696: 2, S0404: 2, L0588: 2,					
--	--	--	--	--	--	--	--	--

	L0581: 2, L0361: 2, S0194: 2, L0615: 1, H0141: 1, H0159: 1, H0585: 1, S0342: 1, H0294: 1, S0430: 1, H0656: 1, H0661: 1, H0125: 1, S0354: 1, H0675: 1, H0637: 1, H0208: 1, H0393: 1, H0411: 1, H0586: 1, H0497: 1, H0642: 1, H0643: 1, H0632: 1, S0280: 1, H0042: 1, H0575: 1, H0318: 1, H0263: 1, T0110: 1, H0121: 1, H0530: 1, H0350: 1, H0015: 1, S0388: 1, S0051: 1, H0375: 1, H0061: 1, S0022: 1, S0214: 1, H0328: 1, L0483: 1, H0031: 1, H0628: 1, L0055: 1, H0165: 1, H0674: 1, H0598: 1, H0591: 1, H0038: 1, H0040: 1, H0087: 1, H0272: 1, H0413: 1, L0475: 1, S0448: 1, S0464: 1, S0306: 1, S0466: 1, H0130: 1,	
--	--	--

HOCPK85	1043351	700	1216 - 305	2875				H0647: 1, H0646: 1, H0652: 1, S0344: 1, S0002: 1, L0598: 1, H0529: 1, L0520: 1, L0645: 1, L0773: 1, L0521: 1, L0626: 1, L0766: 1, L0649: 1, L0522: 1, L0653: 1, L0654: 1, L0379: 1, L0657: 1, L0559: 1, L0526: 1, L0782: 1, L0382: 1, L0519: 1, L0647: 1, S0052: 1, H0144: 1, H0435: 1, H0658: 1, H0672: 1, S0378: 1, S0152: 1, H0523: 1, H0187: 1, H0627: 1, H0631: 1, S0028: 1, S0032: 1, L0759: 1, S0260: 1, S0434: 1, L0608: 1, H0668: 1, H0665: 1, H0136: 1, S0192: 1, S0196: 1, S0424: 1, S0462: 1, H0506: 1, H0293: 1 and H0352: 1.	19q12-q13.1 164731, 172400, 172400, 180901,
---------	---------	-----	------------	------	--	--	--	---	---

				L0766: 5, S0003: 4, L0770: 4, L0769: 4, S0330: 4, L0740: 4, L0747: 4, L0731: 4, L0758: 4, L0601: 4, H0664: 3, S0356: 3, S0360: 3, H0123: 3, L0471: 3, H0620: 3, H0100: 3, S0150: 3, L0764: 3, L0771: 3, L0662: 3, L0649: 3, L0803: 3, L0527: 3, S0374: 3, H0682: 3, H0660: 3, H0666: 3, H0648: 3, H0521: 3, L0755: 3, H0542: 3, H0556: 2, T0049: 2, S0418: 2, S0007: 2, S0045: 2, S0046: 2, H0443: 2, S0222: 2, H0586: 2, S0010: 2, H0581: 2, H0012: 2, H0373: 2, H0266: 2, H0031: 2, H0032: 2, H0551: 2, H0412: 2, H0538: 2, L0369: 2, L0637: 2, L0772: 2, L0773: 2, L0768: 2, L0375: 2, L0659: 2, S0126: 2, H0658: 2,	180901, 221770, 248600, 600918, 602716
--	--	--	--	--	--

L0439: 2, L0751: 2, L0750: 2, L0752: 2, L0596: 2, S0424: 2, H0506: 2, H0585: 1, H0294: 1, H0583: 1, H0656: 1, S0116: 1, H0483: 1, T0007: 1, S0354: 1, S0132: 1, H0369: 1, H0549: 1, H0550: 1, H0370: 1, H0409: 1, H0299: 1, H0600: 1, H0497: 1, H0574: 1, H0559: 1, L0623: 1, H0486: 1, H0244: 1, S0280: 1, H0156: 1, H0599: 1, H0575: 1, H0036: 1, H0004: 1, H0618: 1, S0346: 1, H0318: 1, S0049: 1, H0052: 1, H0085: 1, H0235: 1, H0545: 1, S0388: 1, H0021: 1, H0354: 1, H0355: 1, S6028: 1, H0615: 1, H0428: 1, H0424: 1, S0366: 1, S0036: 1, H0135: 1, S0466: 1, L0065: 1, H0633: 1, H0646: 1, S0144: 1, S0344: 1,
--

HVBM94	1043532	701	1 - 852	2876	Lys-1 to Cys-12, Gln-51 to Leu-56, Asp-63 to Asn-70, Lys-75 to Gln-80, Pro-116 to Thr-122, Gly-181 to Gly-190, Asp-210 to Gly-218,	S0422: 1, S0426: 1, L0763: 1, L0638: 1, L0796: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0642: 1, L0804: 1, L0774: 1, L0775: 1, L0651: 1, L0633: 1, L0657: 1, L0558: 1, L0526: 1, L0384: 1, L0666: 1, L0664: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0659: 1, S0328: 1, S0380: 1, H0518: 1, S0152: 1, H0522: 1, H0134: 1, S3012: 1, S0390: 1, L0749: 1, L0780: 1, L0757: 1, S0031: 1, S0436: 1, L0595: 1, S0026: 1, H0653: 1, H0665: 1 and H0543: 1.	11q21-q22	105580, 133780, 203100, 203100, 602574, 602574
--------	---------	-----	---------	------	--	--	-----------	---

[illegible]

HVVBC43	1043553	702	2754 - 2083	2877	Arg-3 to Thr-10, Arg-26 to Gly-42, Asn-46 to Ser-59, Glu-106 to Ala-122, Ser-129 to Asp-139, Thr-144 to Thr-156, Leu-197 to Thr-206, Pro-208 to Tyr-219.	L0747: 1, L0749: 1, L0779: 1, L0755: 1, S0308: 1 and H0506: 1. L0717: 10, L0748: 9, L0439: 8, H0623: 7, H0052: 6, H0013: 5, L0776: 5, L0438: 5, L0740: 5, H0521: 4, L0756: 4, H0265: 3, H0556: 3, S0360: 3, L0010: 3, H0620: 3, L0662: 3, L0665: 3, H0522: 3, S0116: 2, S0418: 2, S0358: 2, S0046: 2, H0635: 2, H0575: 2, H0590: 2, S0010: 2, L0109: 2, L0471: 2, H0428: 2, H0622: 2, H0031: 2, H0038: 2, H0264: 2, H0059: 2, S0015: 2, H0641: 2, L0770: 2, L0769: 2, L0773: 2, L0774: 2, L0655: 2, L0659: 2, L0789: 2, S0126: 2, S0037: 2, L0744: 2, L0747: 2, L0779: 2, L0758: 2, L0601: 2, H0170: 1, H0686: 1, S0040: 1,	4p16.3	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965
---------	---------	-----	----------------	------	---	--	--------	--

H0294: 1, T0049: 1, H0650: 1, H0657: 1, S0212: 1, S0282: 1, H0484: 1, H0663: 1, H0305: 1, S0140: 1, H0393: 1, H0351: 1, H0437: 1, H0442: 1, H0250: 1, H0427: 1, H0156: 1, H0599: 1, H0036: 1, S0346: 1, H0318: 1, H0251: 1, H0457: 1, H0009: 1, H0123: 1, H0050: 1, H0024: 1, H0051: 1, H0083: 1, H0266: 1, H0416: 1, H0286: 1, H0328: 1, L0483: 1, H0030: 1, H0376: 1, H0598: 1, H0090: 1, H0634: 1, H0616: 1, H0551: 1, H0268: 1, H0269: 1, H0100: 1, H0494: 1, S0144: 1, L0763: 1, L0772: 1, L0646: 1, L0641: 1, L0771: 1, L0767: 1, L0766: 1, L0804: 1, L0606: 1, L0809: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1,					
--	--	--	--	--	--

								H0520: 1, H0519: 1, H0682: 1, H0659: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, H0555: 1, H0626: 1, S3014: 1, S0028: 1, L0751: 1, L0786: 1, L0777: 1, L0731: 1, L0757: 1, L0759: 1, H0667: 1, H0542: 1, H0422: 1 and H0677: 1.			
HTPDM31	1044199	703	1010 - 3	2878	Ser-49 to Leu-55, Pro-151 to Asp-157, Ala-168 to Arg-184, Pro-191 to Pro-215, Pro-232 to Pro-240, Pro-255 to Arg-268.			H0617: 6, L0666: 3, H0188: 2, H0181: 2, H0196: 1, H0039: 1, H0673: 1, L0373: 1, L0775: 1, L0659: 1, L0809: 1, L0789: 1, L0663: 1, L0665: 1, H0658: 1, S0330: 1, S0378: 1 and S0406: 1.			
HSQEK12	1044577	704	35 - 439	2879	Ala-1 to Asp-16.			L0748: 5, L0439: 5, L0751: 3, L0777: 3, L0758: 2, L0596: 2, L0603: 2, S0001: 1, S0278: 1, H0581: 1, H0052: 1, H0123: 1, H0620: 1, S0388: 1, H0628: 1, H0040: 1, H0616: 1, H0646: 1, L0763: 1, L0770: 1,			

HPDRZ16	1044618	705	187 - 834	2880	Pro-16 to Ala-22, Ala-26 to Val-31, Ser-66 to Val-73, Ala-80 to Pro-90, Glu-127 to Ala-135, Glu-142 to Glu-161, Leu-166 to Trp-173, Pro-176 to Gln-183, Arg-204 to Asp-211.	L0769: 1, L0800: 1, L0794: 1, L0803: 1, L0378: 1, L0776: 1, L0655: 1, L0789: 1, H0670: 1, S0328: 1, H0696: 1, S0406: 1, H0436: 1, L0746: 1, L0779: 1, S0031: 1, L0595: 1, S0011: 1 and S0026: 1.	Xq13.1	304040, 305100, 305450, 309605, 312760, 314250, 314580
---------	---------	-----	-----------	------	---	---	--------	--

			L0768: 2, L0809: 2, L0788: 2, H0699: 2, H0539: 2, S0380: 2, S0406: 2, L0748: 2, L0756: 2, L0777: 2, L0755: 2, H0444: 2, H0650: 1, H0656: 1, S0298: 1, S0212: 1, H0661: 1, H0306: 1, S0420: 1, S0442: 1, S0354: 1, S0360: 1, S0408: 1, H0730: 1, S0045: 1, S0278: 1, H0592: 1, H0257: 1, H0250: 1, H0069: 1, H0427: 1, S0280: 1, H0156: 1, H0599: 1, H0253: 1, H0581: 1, H0309: 1, H0544: 1, H0563: 1, H0569: 1, H0012: 1, H0373: 1, H0051: 1, H0510: 1, H0416: 1, H0292: 1, H0252: 1, H0615: 1, H0606: 1, H0708: 1, H0264: 1, S0438: 1, S0440: 1, S0144: 1, S0422: 1, L0763: 1, L0638: 1, L0773: 1, L0648: 1, L0649: 1,					
--	--	--	--	--	--	--	--	--

								L5568: 1, L0804: 1, L0775: 1, L0375: 1, L0806: 1, L0653: 1, L0783: 1, L0384: 1, L0787: 1, L0665: 1, H0520: 1, S0126: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, H0710: 1, H0696: 1, H0134: 1, H0631: 1, S0028: 1, S0032: 1, L0439: 1, L0754: 1, L0749: 1, L0779: 1, L0758: 1, S0031: 1, L0361: 1, H0542: 1, H0423: 1 and H0008: 1.			
HVCBC44	1044635	706	3 - 896	2881	Ala-1 to Gln-8, Lys-18 to Arg-23, Lys-56 to Val-64, Lys-129 to Ala-140, Pro-149 to Asn-155.			H0666: 70, L0766: 3, L0665: 3, H0596: 2, L0794: 2, L0747: 2, H0624: 1, H0656: 1, L0717: 1, H0013: 1, H0318: 1, H0169: 1, L0643: 1, L0645: 1, L0764: 1, L0804: 1, L0657: 1, H0660: 1, L0757: 1, L0588: 1, L0592: 1, L0595: 1 and L0601: 1.			
HPIAC22	1044711	707	701 - 1741	2882				L0745: 23, L0770: 2, S0150: 1, L0761: 1,			

HSODA53	1044741	708	855 - 995	2883				L0788: 1, H0520: 1, L0746: 1, L0747: 1, L0758: 1 and L0759: 1. AR055: 11, AR060: 6, AR033: 5, AR052: 4, AR061: 4, AR104: 4, AR096: 4, AR089: 4, AR039: 3, AR053: 3 H0328: 2, H0124: 2, L0766: 2, H0171: 1, L0005: 1, S0360: 1, H0329: 1, H0615: 1, H0477: 1, S0440: 1, L0598: 1, H0547: 1, S0126: 1, S0168: 1 and H0595: 1.		
HE9ML74	1044760	709	3 - 959	2884	Asp-8 to Asp-20, Phe-43 to Arg-52, Ser-102 to Asp-107, His-109 to Asp-124, Phe-131 to Lys-136, Pro-143 to Pro-149, Lys-189 to Leu-200, Asn-305 to Trp-310.			AR033: 5, AR060: 4, AR096: 4, AR089: 2, AR053: 1, AR061: 1, AR052: 1, AR055: 0, AR104: 0 L0803: 9, L0758: 7, L0439: 6, L0740: 5, L0766: 4, L0666: 4, L0663: 4, L0754: 4, L0747: 4, L0804: 3, H0144: 3, L0750: 3, L0756: 3, L0752: 3, L0600: 3, S0003: 2, L0455: 2, S0366: 2,		

H0529: 2, L0659: 2, L0809: 2, L0665: 2, H0547: 2, H0672: 2, H0539: 2, L0748: 2, L0759: 2, L0591: 2, L0485: 2, S0040: 1, H0650: 1, H0656: 1, S0212: 1, H0663: 1, S0360: 1, H0351: 1, S0222: 1, S6014: 1, H0392: 1, H0632: 1, T0114: 1, H0427: 1, L0021: 1, H0599: 1, H0575: 1, H0581: 1, S0049: 1, L0471: 1, H0373: 1, H0510: 1, S6028: 1, H0615: 1, H0622: 1, S0036: 1, T0067: 1, H0413: 1, T0041: 1, S0002: 1, S0426: 1, L0369: 1, L0770: 1, L0769: 1, L0761: 1, L0772: 1, L0646: 1, L0794: 1, L0774: 1, L0775: 1, L0655: 1, L0661: 1, L0647: 1, L0792: 1, L0793: 1, L0664: 1, H0682: 1, H0435: 1, H0659: 1, H0660: 1.
--

HPDRB76	1044762	710	145 - 855	2885	Glu-14 to Gly-20, Gly-30 to Ala-37, Glu-121 to Leu-127, Lys-152 to Tyr-157, Glu-159 to Thr-173, Leu-177 to Lys-186.	H0651: 1, S0013: 1, H0696: 1, H0436: 1, L0779: 1, L0608: 1, S0446: 1 and H0506: 1, L0747: 8, S0358: 6, L0766: 5, L0774: 5, L0750: 5, L0666: 4, S0406: 4, L0731: 4, H0341: 3, H0696: 3, L0748: 3, L0758: 3, H0650: 2, S0356: 2, S0410: 2, L0717: 2, H0014: 2, L0667: 2, L0768: 2, L0775: 2, L0659: 2, L0783: 2, H0659: 2, H0648: 2, S0330: 2, H0539: 2, L0742: 2, L0439: 2, L0745: 2, L0757: 2, L0759: 2, L0592: 2, L0599: 2, L0595: 2, H0657: 1, S0212: 1, H0662: 1, H0125: 1, S0420: 1, S0354: 1, S0444: 1, S0132: 1, S0476: 1, H0370: 1, L0181: 1, H0069: 1, H0427: 1, L0021: 1, H0575: 1, H0318: 1, S0214: 1, H0039: 1,	1p34	130500, 133200, 138140, 168360, 171760, 171760, 176100, 176100, 178300, 230000, 255800
---------	---------	-----	-----------	------	--	---	------	--

HSYDI55	1044769	711	231 - 1070	2886	Thr-52 to Glu-63, Lys-108 to Asn-118, Gly-148 to Ile-154, Glu-178 to Thr-183, Ala-185 to Arg-195, Lys-202 to Lys-207, Lys-209 to Arg-222, Ser-226 to Glu-233.	<p>H0622: 1, L0483: 1, H0135: 1, H0616: 1, H0477: 1, H0412: 1, S0014: 1, H0561: 1, L0065: 1, S0440: 1, H0633: 1, L0763: 1, L0761: 1, L0772: 1, L0764: 1, L0381: 1, L0653: 1, L0776: 1, L0657: 1, L0383: 1, L0647: 1, L0664: 1, L0665: 1, H0144: 1, H0723: 1, H0658: 1, H0660: 1, H0627: 1, S0027: 1, L0744: 1, L0753: 1, L0755: 1, L0593: 1 and L0594: 1, AR052: 16, AR053: 9, AR033: 5, AR089: 4, AR096: 3, AR060: 3, AR104: 2, AR055: 2, AR039: 1, AR061: 1 H0651: 11, L0794: 8, H0038: 5, L0805: 4, L0758: 4, S0358: 3, S0476: 3, L0766: 3, L0803: 3, L0665: 3, H0144: 3, H0521: 3, L0748: 3, L0740: 3, L0756: 3, H0222: 2,</p>		
---------	---------	-----	------------	------	--	--	--	--

S0420: 2, S0360: 2, H0551: 2, H0412: 2, S0440: 2, L0804: 2, L0789: 2, L0666: 2, L0747: 2, S0436: 2, L0599: 2, H0542: 2, H0223: 1, H0159: 1, H0717: 1, H0716: 1, S0282: 1, H0580: 1, S0046: 1, H0411: 1, H0486: 1, H0013: 1, H0596: 1, L0738: 1, H0544: 1, H0046: 1, L0471: 1, H0014: 1, H0083: 1, S0003: 1, H0553: 1, L0055: 1, H0124: 1, H0591: 1, H0616: 1, H0059: 1, H0494: 1, S0294: 1, H0529: 1, L0770: 1, L0769: 1, L0800: 1, L0644: 1, L0764: 1, L0771: 1, L0662: 1, L0364: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0382: 1, S0148: 1, H0693: 1, S0328: 1, S0152: 1, H0436: 1, H0631: 1, S3014: 1,
--

								S0027: 1, L0439: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0757: 1, H0444: 1, H0445: 1, S0026: 1, S0242: 1, S0194: 1 and H0423: 1.			
HOGCI31	1044821	712	49 - 558	2887				H0435: 1 and S0424: 1.			
HNOKX86	1044893	713	69 - 575	2888				L0740: 20, L0754: 14, L0742: 9, L0771: 7, L0748: 7, L0749: 7, L0752: 6, S0422: 5, L0770: 5, H0585: 4, S0360: 4, H0581: 4, L0769: 4, L0775: 4, S0374: 4, H0521: 4, L0747: 4, L0779: 4, L0753: 4, L0758: 4, H0295: 3, S0278: 3, S0440: 3, S0002: 3, L0649: 3, L0806: 3, S0126: 3, S0380: 3, S0434: 3, S0436: 3, S0026: 3, H0170: 2, H0661: 2, S0358: 2, S0045: 2, H0370: 2, H0442: 2, H0318: 2, S0474: 2, H0687: 2, S0003: 2, H0551: 2, S0438: 2, H0509: 2,			

HTPHG81	1045117	714	2112 - 577	2889	Thr-19 to Ala-26.	S0150: 1, H0646: 1, S0144: 1, S0142: 1, H0529: 1, L0762: 1, L0763: 1, L0371: 1, L0796: 1, L0637: 1, L0521: 1, L0768: 1, L0805: 1, L0655: 1, L0515: 1, L0526: 1, L0809: 1, L0528: 1, L0788: 1, L0792: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0690: 1, H0683: 1, H0684: 1, H0670: 1, S0330: 1, S0152: 1, H0704: 1, H0134: 1, S0406: 1, H0478: 1, H0727: 1, S0206: 1, L0591: 1, H0136: 1, H0216: 1, S0196: 1, H0542: 1, H0543: 1, H0423: 1, L0697: 1, S0424: 1 and S0384: 1.	AR039: 19, AR053: 13, AR096: 10, AR052: 9, AR055: 9, AR033: 9, AR089: 8, AR104: 7, AR060: 7, AR061: 6
---------	---------	-----	------------	------	-------------------	---	--

HPCTV49	1045379	715	34 - 444	2890	Ser-21 to Pro-28, Pro-36 to Ser-63, Gln-67 to Thr-83, Arg-88 to Thr-94, Pro-106 to Lys-111, Gly-125 to Gly-132.	H0553: 2, S0282: 1, S0049: 1, H0052: 1, H0622: 1, H0040: 1 and S0406: 1. S0358: 17, S0360: 7, L0604: 7, L0769: 5, L0497: 5, L0655: 5, L0590: 4, H0543: 4, L0622: 3, L0499: 3, L0775: 3, H0659: 3, H0670: 3, L0757: 3, L0588: 3, L0601: 3, S0276: 3, S0114: 2, H0657: 2, S0007: 2, H0586: 2, T0109: 2, T0048: 2, H0327: 2, L0471: 2, H0494: 2, L0770: 2, L0662: 2, L0527: 2, L0513: 2, L0530: 2, H0144: 2, H0689: 2, H0672: 2, H0521: 2, L0750: 2, L0755: 2, L0731: 2, L0596: 2, L0599: 2, L0608: 2, L0440: 1, T0049: 1, H0341: 1, H0483: 1, H0125: 1, H0580: 1, S0045: 1, H0351: 1, H0411: 1, S0222: 1, L0623: 1,		
---------	---------	-----	----------	------	--	--	--	--

H0486: 1, T0039: 1, L0586: 1, S0280: 1, H0599: 1, T0082: 1, H0274: 1, H0581: 1, H0251: 1, H0009: 1, H0266: 1, H0687: 1, H0328: 1, H0615: 1, H0428: 1, S0368: 1, L0055: 1, H0316: 1, H0598: 1, S0036: 1, H0038: 1, T0067: 1, H0560: 1, H0625: 1, H0130: 1, H0633: 1, H0647: 1, S0422: 1, L0520: 1, L0762: 1, L0500: 1, L0639: 1, L0372: 1, L0646: 1, L0645: 1, L0765: 1, L0363: 1, L0767: 1, L0768: 1, L0381: 1, L0550: 1, L0498: 1, L0774: 1, L0776: 1, L0518: 1, L0782: 1, L0543: 1, L0532: 1, L0666: 1, H0683: 1, H0648: 1, H0651: 1, H0525: 1, H0522: 1, S3012: 1, S0027: 1, L0777: 1, L0752: 1, L0759: 1, L0592: 1,
--

HHGDK68	1045464	716	121 - 999	2891	Arg-128 to Asp-133, Lys-155 to Gln-164, Tyr-168 to Leu-174, Glu-190 to Leu-197, Pro-213 to Arg-224, Met-226 to Ser-241, Pro-247 to Ser-255.	L0361: 1, S0026: 1, H0667: 1 and H0542: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	
HNOKM38	1045500	717	5155 - 3530	2892	Gln-12 to His-23.	L0731: 21, L0747: 17, L0776: 16, L0748: 14, L0777: 14, L0752: 13, L0755: 13, L0769: 11, L0750: 11, L0766: 10, L0806: 8, L0770: 7, H0556: 5, L0599: 5, L0774: 4, L0756: 4, L0779: 4, L0753: 4, H0341: 3, L0761: 3, L0764: 3, L0771: 3, L0809: 3, H0144: 3, L0743: 3, L0754: 3, L0757: 3, H0265: 2, S0134: 2, H0306: 2, H0402: 2, H0580: 2, H0393: 2, H0369: 2, H0441: 2, H0013: 2,			

H0024: 2, H0051: 2, H0687: 2, H0031: 2, H0644: 2, H0135: 2, L0763: 2, L0662: 2, L0768: 2, L0794: 2, L0803: 2, L0775: 2, L0783: 2, H0521: 2, L0759: 2, L0587: 2, L0591: 2, L0603: 2, S0114: 1, S0218: 1, H0483: 1, H0254: 1, H0663: 1, S0046: 1, H0440: 1, H0411: 1, H0550: 1, H0370: 1, H0333: 1, H0574: 1, T0039: 1, H0036: 1, H0545: 1, H0150: 1, H0083: 1, H0399: 1, H0355: 1, H0179: 1, H0271: 1, H0615: 1, H0622: 1, T0006: 1, H0553: 1, H0166: 1, H0169: 1, H0674: 1, L0456: 1, S0036: 1, H0040: 1, H0634: 1, H0100: 1, H0560: 1, H0633: 1, H0695: 1, L0762: 1, L0640: 1, L0796: 1, L0641: 1, L0648: 1, L0767: 1,
--

HHFUN47	1045842	718	4701 - 2335	2893	Glu-98 to Asp-109, Ser-121 to Ile-128.	L0805: 1, L0606: 1, L0657: 1, L0659: 1, L0528: 1, L0532: 1, L0664: 1, L0665: 1, S0330: 1, S0027: 1, L0740: 1, L0745: 1, L0749: 1, L0758: 1, H0445: 1, L0608: 1, L0595: 1, L0601: 1, S0242: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1, H0506: 1 and L0600: 1.		
						L0748: 13, L0754: 5, L0746: 5, S0356: 4, H0052: 4, L0803: 4, L0745: 4, L0749: 4, L0731: 4, S0360: 3, H0032: 3, H0646: 3, L0766: 3, L0438: 3, L0439: 3, L0740: 3, L0777: 3, S0222: 2, H0581: 2, H0014: 2, S0003: 2, H0591: 2, L0775: 2, L0664: 2, H0435: 2, L0743: 2, L0485: 2, H0542: 2, H0543: 2, L0600: 2, S6024: 1, S0376: 1, H0331: 1, S0414: 1,		

HNTSV18	1045995	719	1 - 504	2894	Ala-3 to Gly-19, Arg-29 to Gly-34, Gly-41 to Pro-51, Tyr-90 to Gly-102, Pro-119 to Trp-124.	H0492: 1, H0486: 1, T0082: 1, H0004: 1, S0010: 1, H0242: 1, L0471: 1, H0510: 1, H0039: 1, H0622: 1, H0553: 1, H0090: 1, H0038: 1, H0040: 1, H0616: 1, H0059: 1, H0654: 1, H0538: 1, S0426: 1, L0637: 1, L0761: 1, L0667: 1, L0794: 1, L0560: 1, L0804: 1, L0776: 1, L0666: 1, H0144: 1, S0374: 1, H0519: 1, H0593: 1, S0122: 1, H0684: 1, H0666: 1, S0330: 1, H0539: 1, S0152: 1, H0521: 1, H0522: 1, L0747: 1, L0779: 1, L0758: 1, L0590: 1, L0591: 1, S0192: 1, S0194: 1 and H0422: 1.	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276,
---------	---------	-----	---------	------	---	---	----------	--

							S0212: 1, S0046: 1, H0587: 1, H0024: 1, S0036: 1, H0652: 1, L0649: 1, H0547: 1, H0658: 1 and L0439: 1.		173360, 173360, 602136, 602136, 602136, 602447
HWHGU08	1046137	720	2564 - 1749	2895	Ala-43 to Thr-51, Gly-104 to Arg-112.		S0412: 19, L0803: 10, S0003: 9, S0414: 6, L0770: 6, L0766: 6, L0663: 6, L0754: 6, S0406: 5, L0752: 5, S0222: 4, L0771: 4, H0144: 4, L0439: 4, L0731: 4, S0444: 3, L0717: 3, H0328: 3, L0662: 3, L0655: 3, S0330: 3, H0521: 3, L0748: 3, L0759: 3, H0556: 2, S0356: 2, S0354: 2, H0676: 2, S0408: 2, H0013: 2, H0575: 2, H0050: 2, H0266: 2, S0214: 2, H0428: 2, H0031: 2, H0674: 2, T0067: 2, L0764: 2, L0806: 2, L0805: 2, L0809: 2, L0666: 2, L0664: 2, L0665: 2, H0547: 2, H0435: 2, H0659: 2,	10p11.2-p12	600964, 602026

H0670: 2, H0660: 2, H0539: 2, S0028: 2, L0779: 2, L0777: 2, L0780: 2, L0588: 2, L0595: 2, H0423: 2, H0685: 1, S0218: 1, H0650: 1, H0656: 1, H0341: 1, S0001: 1, H0125: 1, S0418: 1, S0420: 1, S0360: 1, S0046: 1, S0278: 1, H0437: 1, H0455: 1, H0586: 1, H0587: 1, H0574: 1, H0486: 1, H0156: 1, S0010: 1, H0196: 1, H0052: 1, T0110: 1, H0597: 1, H0046: 1, H0572: 1, H0123: 1, L0471: 1, H0015: 1, S0362: 1, L0163: 1, S6028: 1, H0687: 1, H0622: 1, T0023: 1, L0483: 1, H0553: 1, H0628: 1, H0032: 1, S0364: 1, H0708: 1, H0591: 1, H0040: 1, H0634: 1, H0551: 1, H0412: 1, L0475: 1, S0015: 1, H0625: 1, S0440: 1,
--

HE6CR19	1046177	721	870 - 508	2896	Val-3 to Gly-14, Ser-65 to Asn-70.	S0422: 1, S0426: 1, H0529: 1, L0762: 1, L0769: 1, L0796: 1, L0761: 1, L0667: 1, L0772: 1, L0641: 1, L0642: 1, L0643: 1, L0773: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, L0783: 1, L0790: 1, T0068: 1, H0519: 1, H0658: 1, H0696: 1, S0206: 1, L0747: 1, L0749: 1, L0755: 1, L0758: 1, H0445: 1, S0436: 1, L0592: 1, H0668: 1, S0026: 1, H0653: 1, H0667: 1, H0136: 1, H0542: 1, S0424: 1 and S0446: 1.	2p22-p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300,
---------	---------	-----	-----------	------	---------------------------------------	---	----------	--

L0555: 4, L0776: 4, S0358: 3, H0100: 3, S0440: 3, L0375: 3, L0664: 3, L0665: 3, L0756: 3, L0752: 3, T0049: 2, S0442: 2, S0045: 2, L0471: 2, T0006: 2, H0413: 2, L0769: 2, L0774: 2, L0775: 2, L0655: 2, L0659: 2, L0382: 2, L0666: 2, L0663: 2, H0658: 2, S0328: 2, S0406: 2, L0439: 2, L0755: 2, L0588: 2, L0591: 2, L0362: 2, S0116: 1, H0483: 1, S0360: 1, S0132: 1, H0393: 1, S0278: 1, H0586: 1, L0021: 1, H0052: 1, H0251: 1, H0544: 1, H0041: 1, H0266: 1, S0214: 1, T0023: 1, H0641: 1, L0772: 1, L0773: 1, L0662: 1, L0386: 1, L0388: 1, L0652: 1, L0653: 1, L0656: 1, L0526: 1, L0518: 1, L0809: 1, S0126: 1,	601071, 601771, 602134
--	------------------------------

HE9EJ82	1046856	722	3 - 173	2897	Glu-12 to Phe-17, Ser-44 to Asn-57.	H0659: 1, S0330: 1, S0380: 1, L0602: 1, H0710: 1, S0027: 1, L0753: 1, L0757: 1, L0759: 1, L0480: 1, H0665: 1, S0276: 1, H0422: 1 and S0384: 1. L0747: 7, H0144: 6, L0748: 6, L0758: 6, L0666: 5, L0750: 5, L0755: 5, S0360: 4, L0646: 4, L0375: 4, L0776: 4, S0358: 3, H0013: 3, H0024: 3, H0087: 3, L0761: 3, L0764: 3, L0775: 3, L0513: 3, L0809: 3, L0532: 3, L0565: 3, L0751: 3, L0752: 3, L0731: 3, L0588: 3, H0170: 2, T0049: 2, S0116: 2, H0255: 2, S0420: 2, S0280: 2, L0471: 2, H0620: 2, H0083: 2, L0483: 2, H0617: 2, L0769: 2, L0637: 2, L0643: 2, L0662: 2, L0497: 2, L0774: 2, L0655: 2, L0657: 2, L0783: 2,	1q21-q23	104770, 107300, 107670, 110700, 131210, 134638, 135940, 136132, 145001, 146740, 146740, 146740, 146790, 152445, 152445, 159001, 173610, 174000, 176310, 179755, 182860, 182860, 182860,
---------	---------	-----	---------	------	--	---	----------	---

H0666: 2, L0749: 2, L0759: 2, L0592: 2, L0361: 2, S0114: 1, S0134: 1, S0218: 1, H0662: 1, H0241: 1, S0356: 1, L0717: 1, H0333: 1, L0623: 1, H0486: 1, H0270: 1, H0069: 1, H0318: 1, H0581: 1, H0597: 1, H0546: 1, H0009: 1, H0178: 1, H0123: 1, S0051: 1, H0594: 1, H0271: 1, H0188: 1, H0615: 1, H0553: 1, H0181: 1, H0032: 1, H0169: 1, H0163: 1, H0038: 1, H0063: 1, H0164: 1, H0059: 1, H0117: 1, H0100: 1, L0351: 1, H0509: 1, S0144: 1, S0142: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0640: 1, L0763: 1, L0371: 1, L0641: 1, L0642: 1, L0374: 1, L0771: 1, L0648: 1, L0363: 1, L0768: 1, L0499: 1, L0378: 1,	186780, 191030, 191315, 227400, 227400, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491
--	--

								L0806: 1, L0653: 1, L0558: 1, L0659: 1, L0517: 1, L0526: 1, L0384: 1, L0529: 1, L0543: 1, L0647: 1, L0664: 1, L0665: 1, S0428: 1, H0520: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0378: 1, S0380: 1, H0576: 1, L0742: 1, L0744: 1, L0756: 1, L0757: 1, H0445: 1, L0596: 1, L0605: 1, L0593: 1, L0362: 1, H0542: 1, H0543: 1, H0506: 1 and H0352: 1.			
HRADC23	1046980	723	49 - 339	2898				S0250: 2 and H0555: 1.			
HODHS68	1047137	724	516 - 1220	2899	Thr-26 to Ala-44, Pro-55 to His-71, Ser-76 to Cys-83, Asn-92 to Lys-104, Pro-149 to Tyr-158, Ser-208 to Asp-214, Glu-228 to Tyr-234.	L0748: 40, L0740: 39, L0754: 23, H0556: 19, H0620: 13, L0755: 12, L0731: 12, L0741: 11, S0002: 10, L0766: 10, L0439: 10, H0265: 9, H0013: 9, H0521: 9, L0747: 9, L0758: 8, H0599: 7, L0794: 7, L0751: 7, L0779: 7, L0777: 7, L0752: 7,	3q21	106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050,			

S0358: 6, S0360: 6, H0052: 6, H0271: 6, S0003: 6, S0344: 6, S0426: 6, L0774: 6, S0126: 6, L0757: 6, L0759: 6, S0007: 5, S0010: 5, H0046: 5, H0150: 5, H0615: 5, H0622: 5, H0591: 5, H0040: 5, H0623: 5, S0142: 5, L0770: 5, L0764: 5, L0743: 5, L0601: 5, H0624: 4, H0575: 4, H0545: 4, H0012: 4, S0022: 4, H0644: 4, H0628: 4, H0090: 4, H0038: 4, H0634: 4, T0041: 4, L0769: 4, L0363: 4, L0776: 4, L0518: 4, H0144: 4, S0328: 4, L0744: 4, L0750: 4, L0592: 4, H0661: 3, L0005: 3, H0580: 3, S0278: 3, L0471: 3, H0428: 3, H0039: 3, T0023: 3, H0616: 3, L0598: 3, L0771: 3, L0662: 3, H0658: 3, H0522: 3, L0605: 3,	276902, 600882, 601199, 601199, 601199, 601199, 601471, 601682
--	---

L0595: 3, S0026: 3, H0543: 3, H0657: 2, S0116: 2, H0341: 2, S0420: 2, S0354: 2, S0045: 2, H0393: 2, L0717: 2, S0222: 2, H0370: 2, T0039: 2, H0618: 2, H0024: 2, T0010: 2, L0483: 2, H0031: 2, L0142: 2, H0032: 2, T0067: 2, H0268: 2, H0494: 2, H0529: 2, L0775: 2, L0375: 2, L0382: 2, L0809: 2, S0374: 2, L0438: 2, H0547: 2, H0519: 2, H0690: 2, H0660: 2, S0330: 2, S0152: 2, H0134: 2, H0626: 2, S0206: 2, L0786: 2, L0753: 2, L0608: 2, L0593: 2, L0603: 2, S0011: 2, H0668: 2, H0653: 2, S0192: 2, H0422: 2, H0170: 1, T0002: 1, H0716: 1, S6024: 1, S0114: 1, T0049: 1, S0134: 1, H0583: 1, H0638: 1, S0442: 1,
--

		H0489: 1, S0046: 1, H0619: 1, H0437: 1, H0550: 1, H0441: 1, H0461: 1, H0455: 1, H0438: 1, H0601: 1, S0005: 1, H0333: 1, H0574: 1, H0632: 1, H0486: 1, H0270: 1, H0244: 1, H0069: 1, H0635: 1, S0280: 1, L0021: 1, H0002: 1, L0022: 1, H0042: 1, H0036: 1, H0318: 1, H0581: 1, H0421: 1, S0049: 1, H0251: 1, H0309: 1, T0115: 1, H0597: 1, H0041: 1, T0003: 1, H0051: 1, S0051: 1, H0083: 1, S6028: 1, H0266: 1, H0267: 1, H0288: 1, H0286: 1, S0214: 1, H0252: 1, H0070: 1, H0213: 1, H0553: 1, L0055: 1, H0708: 1, H0598: 1, H0063: 1, H0056: 1, T0069: 1, S0386: 1, H0100: 1, L0564: 1, T0042: 1, S0016: 1, H0561: 1,				
--	--	--	--	--	--	--

			S0440: 1, H0132: 1, S0150: 1, H0641: 1, H0652: 1, L0369: 1, L0762: 1, L0763: 1, L0638: 1, L0372: 1, L0800: 1, L0648: 1, L0767: 1, L0768: 1, L0561: 1, L0381: 1, L0803: 1, L0804: 1, L0651: 1, L0806: 1, L0527: 1, L0657: 1, L0659: 1, L0526: 1, L0544: 1, L0367: 1, L0789: 1, L0791: 1, L0666: 1, L0664: 1, H0520: 1, H0659: 1, H0670: 1, H0648: 1, H0672: 1, S0380: 1, H0518: 1, S0454: 1, S0013: 1, H0696: 1, S0044: 1, S0406: 1, H0555: 1, H0187: 1, S0392: 1, H0627: 1, H0631: 1, S3012: 1, S0390: 1, S3014: 1, S0027: 1, S0028: 1, L0745: 1, L0756: 1, L0780: 1, S0031: 1, S0260: 1, H0707: 1, S0434: 1, L0596: 1,						
--	--	--	--	--	--	--	--	--	--

HOPKT59	1047169	725	275 - 814	2900	Gln-1 to Gln-11, Ala-24 to Asp-33, Pro-81 to Arg-91, Lys-99 to Lys-115, Trp-126 to Arg-142, Asp-162 to Glu-180.	L0588: 1, L0599: 1, L0362: 1, L0361: 1, S0276: 1, H0542: 1, S0384: 1 and H0293: 1. H0556: 15, H0090: 12, S0152: 11, H0543: 10, H0553: 9, S0026: 9, H0341: 8, S0358: 8, H0046: 8, S0440: 8, L0659: 8, L0665: 8, L0595: 8, H0657: 7, H0266: 7, H0591: 7, H0529: 7, L0666: 7, L0663: 7, H0144: 7, H0547: 7, H0521: 7, L0756: 7, L0731: 7, S0360: 6, S0476: 6, S0003: 6, H0615: 6, H0644: 6, H0040: 6, H0413: 6, L0662: 6, L0664: 6, L0754: 6, L0752: 6, L0599: 6, L0608: 6, H0624: 5, S0408: 5, T0109: 5, H0013: 5, H0551: 5, H0560: 5, L0803: 5, L0655: 5, H0519: 5, S0126: 5, H0684: 5, L0439: 5, L0759: 5, S0436: 5, H0542: 5,		
---------	---------	-----	-----------	------	--	---	--	--

H0423: 5, H0265: 4, S0420: 4, H0031: 4, H0598: 4, H0038: 4, H0633: 4, L0520: 4, L0770: 4, L0646: 4, L0771: 4, L0649: 4, L0775: 4, H0659: 4, L0779: 4, L0758: 4, H0445: 4, H0422: 4, S0424: 4, H0656: 3, S0132: 3, H0586: 3, H0486: 3, H0327: 3, S0051: 3, H0083: 3, H0687: 3, H0039: 3, L0483: 3, H0169: 3, L0369: 3, L0769: 3, L0657: 3, L0809: 3, L0438: 3, H0520: 3, S0330: 3, H0522: 3, H0665: 3, H0171: 2, H0686: 2, S0040: 2, H0716: 2, H0295: 2, S0134: 2, H0583: 2, H0663: 2, H0402: 2, S0418: 2, L0005: 2, S0442: 2, S0354: 2, S0376: 2, S0046: 2, H0619: 2, H0393: 2, L0717: 2, H0497: 2, H0574: 2, T0114: 2,
--

	H0427: 2, H0590: 2, H0546: 2, H0012: 2, H0373: 2, H0051: 2, H0428: 2, H0628: 2, H0673: 2, H0124: 2, H0634: 2, H0616: 2, H0488: 2, H0412: 2, H0056: 2, L0564: 2, H0494: 2, H0561: 2, H0509: 2, H0132: 2, H0646: 2, L0640: 2, L0763: 2, L0772: 2, L0373: 2, L0521: 2, L0766: 2, L0804: 2, L0805: 2, L0653: 2, L0790: 2, H0690: 2, S0328: 2, H0539: 2, H0518: 2, H0134: 2, H0631: 2, L0748: 2, L0740: 2, S0031: 2, S0434: 2, L0588: 2, L0485: 2, L0593: 2, L0603: 2, H0713: 1, H0717: 1, S0218: 1, S0116: 1, S0212: 1, H0671: 1, H0664: 1, H0662: 1, H0450: 1, H0125: 1, S0444: 1, T0008: 1, H0580: 1, S0045: 1, H0351: 1,					
--	--	--	--	--	--	--

			S0222: 1, H0409: 1, H0592: 1, H0642: 1, H0331: 1, H0632: 1, H0250: 1, H0069: 1, H0635: 1, S0280: 1, H0156: 1, L0021: 1, H0042: 1, H0575: 1, S0474: 1, H0581: 1, H0421: 1, H0052: 1, H0251: 1, H0263: 1, T0103: 1, H0545: 1, H0457: 1, H0041: 1, H0123: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, H0057: 1, S0388: 1, H0239: 1, H0375: 1, H0594: 1, S0318: 1, S0316: 1, H0286: 1, S0022: 1, S0214: 1, H0328: 1, H0622: 1, T0023: 1, H0119: 1, L0142: 1, H0032: 1, H0674: 1, S0364: 1, H0376: 1, H0135: 1, H0087: 1, T0067: 1, H0623: 1, H0100: 1, T0041: 1, T0042: 1, H0625: 1, L0065: 1, S0438: 1, H0131: 1, S0150: 1,					
--	--	--	--	--	--	--	--	--

HMC/FK45	1047212	726					S0142: 1, S0422: 1, L0598: 1, L0631: 1, L0638: 1, L0641: 1, L0764: 1, L0773: 1, L0648: 1, L0363: 1, L0767: 1, L0768: 1, L5574: 1, L0381: 1, L0552: 1, L0774: 1, L0375: 1, L0607: 1, L0634: 1, L0782: 1, S0428: 1, S0374: 1, H0593: 1, H0689: 1, H0435: 1, H0660: 1, H0666: 1, H0648: 1, H0672: 1, S0380: 1, H0709: 1, S0013: 1, H0696: 1, H0704: 1, S0174: 1, S0406: 1, H0436: 1, H0576: 1, H0478: 1, S0432: 1, S3012: 1, S0028: 1, L0777: 1, L0755: 1, L0480: 1, L0597: 1, L0589: 1, L0591: 1, L0592: 1, L0594: 1, L0362: 1, L0601: 1, H0668: 1, H0667: 1, H0136: 1, S0194: 1 and H0008: 1.	L0747: 10, L0758: 6,	
----------	---------	-----	--	--	--	--	--	----------------------	--

HPIAN63	1047381	727		2 - 595	2902	Lys-1 to Leu-6,	Lys-29 to Asn-39, Arg-110 to Arg-115, Lys-120 to Asn-125, Glu-153 to Leu-158, Pro-173 to Val-181.	L0752: 5, L0774: 4, L0663: 4, L0748: 4, L0751: 4, L0775: 3, L0757: 3, L0759: 3, S0360: 2, S0007: 2, H0687: 2, L0769: 2, L0761: 2, L0766: 2, L0806: 2, L0750: 2, L0777: 2, L0753: 2, L0755: 2, H0254: 1, S0420: 1, S0356: 1, H0392: 1, H0587: 1, L0021: 1, H0046: 1, H0178: 1, H0620: 1, S0050: 1, H0617: 1, H0673: 1, H0616: 1, S0144: 1, S0344: 1, L0637: 1, L0646: 1, L0374: 1, L0771: 1, L0767: 1, L0661: 1, L0629: 1, L0659: 1, L0783: 1, L0367: 1, L0368: 1, L0666: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0404: 1, H0436: 1, L0740: 1, L0749: 1, L0603: 1, H0422: 1, S0424: 1 and H0677: 1.	L0777: 13, L0794: 8;
---------	---------	-----	--	---------	------	-----------------	---	--	----------------------

					Ser-36 to Ser-41, Arg-54 to His-63.	L0438: 7, L0748: 7, L0659: 6, L0759: 6, L0591: 6, H0617: 5, L0439: 5, L0779: 5, L0758: 5, L0596: 5, H0556: 4, H0618: 4, H0052: 4, L0770: 4, L0803: 4, L0789: 4, S0418: 3, H0013: 3, H0628: 3, H0494: 3, L0598: 3, L0769: 3, L0804: 3, L0509: 3, L0665: 3, H0659: 3, H0624: 2, H0265: 2, H0717: 2, S0442: 2, S0354: 2, S0358: 2, L0149: 2, S0046: 2, S0278: 2, H0559: 2, S0010: 2, S0049: 2, L0041: 2, H0050: 2, H0083: 2, H0328: 2, UNKWN: 2, H0529: 2, L0662: 2, L0776: 2, L0655: 2, H0670: 2, H0660: 2, S0406: 2, L0747: 2, L0749: 2, L0752: 2, L0731: 2, S0436: 2, L0594: 2, H0542: 2, H0170: 1, H0171: 1, H0657: 1,
--	--	--	--	--	--	--

L0785: 1, H0384: 1, H0671: 1, H0663: 1, L0534: 1, S0356: 1, S0444: 1, S0408: 1, H0549: 1, S0222: 1, H0643: 1, H0632: 1, S0414: 1, H0257: 1, H0486: 1, T0082: 1, T0048: 1, H0318: 1, S0474: 1, H0194: 1, H0263: 1, H0327: 1, H0544: 1, H0546: 1, H0046: 1, H0057: 1, L0163: 1, H0051: 1, S0051: 1, T0010: 1, H0266: 1, H0188: 1, L0052: 1, H0288: 1, S0003: 1, H0604: 1, H0644: 1, H0068: 1, H0316: 1, S0036: 1, H0040: 1, H0164: 1, H0413: 1, H0059: 1, H0100: 1, L0564: 1, H0625: 1, S0448: 1, S0440: 1, S0150: 1, L0637: 1, L0373: 1, L0800: 1, L0374: 1, L0765: 1, L0771: 1, L0766: 1, L0649: 1, L0378: 1, L0805: 1,
--

HNSME49	1047403	728	1295 - 558	2903	Glu-16 to Gly-28, Glu-73 to Glu-78, Asp-94 to Ser-103, Lys-124 to Asp-129, Gln-149 to Arg-155, Ala-190 to Ser-233, Val-240 to Pro-246.	L0493: 1, L0783: 1, L0383: 1, L5622: 1, L0368: 1, L0787: 1, L0666: 1, L0663: 1, H0144: 1, S0374: 1, L0565: 1, H0520: 1, H0547: 1, H0658: 1, H0666: 1, H0672: 1, H0651: 1, S0380: 1, L0741: 1, L0754: 1, L0750: 1, L0756: 1, S0031: 1, L0589: 1, L0590: 1, L0485: 1, L0608: 1, L0604: 1, L0593: 1, H0506: 1 and H0352: 1. L0794: 6, H0685: 2, S0356: 2, H0090: 2, H0494: 2, L0766: 2, L0803: 2, L0654: 2, L0665: 2, H0435: 2, L0362: 2, H0556: 1, H0384: 1, H0484: 1, S0418: 1, H0497: 1, H0013: 1, S0010: 1, S0346: 1, S0049: 1, H0545: 1, H0375: 1, H0674: 1, L0455: 1, H0413: 1, L0639: 1, L0800: 1, L0376: 1,		
---------	---------	-----	------------	------	--	---	--	--

HWEAC64	1047473	729	155 - 721	2904	Glu-17 to Val-22, Val-29 to Asn-38, Gly-60 to Val-67, Gln-84 to Glu-93, Lys-106 to Leu-115, Gln-118 to Gln-123, Lys-152 to Val-159.	AR104: 1, AR033: 1, AR089: 1, AR053: 0, AR096: 0, AR061: 0, AR039: 0, AR052: 0, AR060: 0, AR055: 0, H0694: 29, H0703: 13, H0683: 10, H0717: 7, H0713: 6, H0542: 6, H0687: 4, H0656: 3, H0685: 2, H0716: 2, H0688: 2, H0695: 2, S0428: 2, H0689: 2, H0684: 2, H0521: 2, H0580: 1, H0601: 1, H0592: 1, H0708: 1, S0150: 1, H0699: 1, H0519: 1, H0709: 1, H0522: 1, H0555: 1,	L0378: 1, L0805: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, L0664: 1, S0374: 1, H0520: 1, S0126: 1, H0666: 1, H0539: 1, S0152: 1, S0037: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, S0436: 1, L0592: 1 and H0506: 1.		
---------	---------	-----	-----------	------	---	---	---	--	--

HOCQI51	1047483	730	3 - 1016	2905	Gln-15 to Phe-20, Ser-49 to Tyr-54, Glu-111 to Glu-121, Arg-185 to Asp-190, Phe-206 to Asp-212, Glu-309 to Pro-314.	S0028: 1, H0707: 1 and H0543: 1. L0794: 8, H0556: 4, H0046: 4, L0809: 3, L0748: 3, H0341: 2, S0356: 2, S0046: 2, H0100: 2, L0769: 2, L0659: 2, S0328: 2, L0742: 2, H0422: 2, H0265: 1, T0002: 1, S0418: 1, S0420: 1, S0354: 1, S0045: 1, L0717: 1, H0549: 1, S0222: 1, H0586: 1, H0156: 1, T0110: 1, H0150: 1, S0051: 1, H0594: 1, H0266: 1, S0250: 1, H0604: 1, S0364: 1, H0634: 1, H0412: 1, H0494: 1, H0561: 1, H0695: 1, H0529: 1, L0761: 1, L0667: 1, L0772: 1, L0643: 1, L0764: 1, L0771: 1, L0768: 1, L0766: 1, L0803: 1, L0629: 1, L0368: 1, L0788: 1, H0690: 1, H0682: 1, H0660: 1, S0152: 1, S0404: 1,		
---------	---------	-----	----------	------	--	---	--	--

HOPKE15	1047634	731	3 - 434	2906	Met-18 to Tyr-45, Arg-56 to Thr-65, Gln-89 to Glu-107, Pro-109 to Ala-132.	L0747: 1, L0755: 1, H0445: 1 and H0542: 1. H0046: 9, L0766: 8, L0731: 4, S0360: 3, S0408: 3, H0529: 3, L0769: 3, L0608: 3, H0543: 3, H0656: 2, H0341: 2, S0046: 2, S0010: 2, H0318: 2, H0616: 2, S0150: 2, S0002: 2, L0803: 2, L0659: 2, S0374: 2, H0684: 2, S0328: 2, L0750: 2, L0752: 2, L0759: 2, H0170: 1, S0134: 1, H0657: 1, H0637: 1, H0580: 1, H0486: 1, T0040: 1, T0109: 1, L0021: 1, H0575: 1, H0581: 1, H0052: 1, H0266: 1, H0188: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0039: 1, H0553: 1, H0598: 1, H0163: 1, H0591: 1, H0038: 1, H0040: 1, T0067: 1, H0413: 1, S0464: 1, S0440: 1, L0598: 1, L0772: 1,		
---------	---------	-----	---------	------	---	---	--	--

HMAEL73	1047646	732	748 - 2463	2907	Pro-41 to Gln-47, Thr-169 to Glu-174, Gly-252 to Glu-259, Pro-343 to Ser-348, Asn-379 to Ala-384, His-425 to Glu-432, Asn-505 to Asn-511, Arg-516 to Phe-522.	L0800: 1, L0764: 1, L0773: 1, L0648: 1, L0768: 1, L0774: 1, L0775: 1, L0382: 1, L0792: 1, L0666: 1, H0520: 1, S0126: 1, H0682: 1, H0648: 1, H0539: 1, S0378: 1, S0380: 1, S0152: 1, H0521: 1, H0696: 1, H0214: 1, S0406: 1, S0027: 1, L0751: 1, L0777: 1, L0755: 1, L0758: 1, S0031: 1, L0480: 1, L0596: 1, L0592: 1, H0653: 1, H0667: 1, S0192: 1, H0542: 1 and H0422: 1. L0758: 6, L0731: 4, L0747: 3, S0342: 2, L0769: 2, L0768: 2, L0749: 2, L0615: 1, H0686: 1, H0125: 1, S0418: 1, S0354: 1, S0358: 1, S0360: 1, S0222: 1, H0613: 1, H0004: 1, H0510: 1, S6028: 1, H0615: 1, H0039: 1, H0494: 1, S0144: 1, L0762: 1,		
---------	---------	-----	------------	------	--	---	--	--

HNOKE42	1047663	733	2 - 445	2908	Arg-1 to Tyr-7, Arg-17 to Arg-23, Glu-40 to Phe-45, Thr-64 to Tyr-71, Arg-117 to Glu-127, Arg-141 to Ser-148.	L0388: 1, L0775: 1, L0789: 1, H0689: 1, H0435: 1, H0648: 1, S0152: 1, L0744: 1, L0745: 1, L0755: 1 and H0423: 1. H0551: 4, H0494: 4, H0561: 3, H0529: 3, H0521: 3, H0486: 2, L0471: 2, H0373: 2, H0510: 2, H0687: 2, H0553: 2, H0708: 2, H0560: 2, H0509: 2, L0794: 2, L0774: 2, H0547: 2, H0519: 2, H0539: 2, L0439: 2, L0754: 2, L0777: 2, H0685: 1, S0282: 1, S0418: 1, H0637: 1, H0485: 1, H0156: 1, H0530: 1, T0010: 1, S6028: 1, T0023: 1, H0212: 1, T0042: 1, L0763: 1, L0637: 1, L0768: 1, L0805: 1, L0530: 1, L0787: 1, S0148: 1, H0435: 1, H0670: 1, H0660: 1, H0710: 1, H0518: 1, H0522: 1, H0704: 1,		
---------	---------	-----	---------	------	--	---	--	--

								S0176: 1, L0748: 1, L0749: 1, L0731: 1 and L0758: 1.			
HOFAE31	1047670	734	2 - 220	2909				Glu-1 to Leu-8, Arg-38 to Cys-49.			
HCLCX62	1047716	735	129 - 437	2910				Ala-1 to Leu-7, Ser-18 to Lys-23.			
								S0136: 25, L0665: 4, S0001: 1, H0662: 1, H0632: 1, H0594: 1, H0188: 1, H0598: 1, H0379: 1, S0294: 1, L0764: 1, L0521: 1, L0803: 1, L0805: 1, L0493: 1, L0514: 1, L0515: 1, L0659: 1, H0689: 1, H0683: 1, H0670: 1, H0672: 1, S0328: 1, H0539: 1, H0478: 1, L0777: 1, L0731: 1 and L0599: 1.			
HNOAC93	1047820	736	826 - 554	2911				Pro-12 to Pro-20, Leu-24 to Ser-31, Pro-34 to Pro-82, Arg-84 to Pro-91.		16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850,
								AR053: 18, AR089: 16, AR096: 15, AR033: 14, AR039: 12, AR060: 11, AR104: 11, AR055: 10, AR061: 6 H0251: 6, H0412: 2, H0295: 1, S0114: 1, H0657: 1, H0255: 1, H0663: 1, H0619: 1, S0222: 1, H0392: 1, H0333: 1, H0486: 1,			

HMEJA45	1047848	737	1 - 399	2912	Phe-4 to Arg-11, Ala-16 to Ser-22, Cys-31 to Cys-39.	H0635: 1, H0318: 1, H0050: 1, H0051: 1, S0388: 1, S0051: 1, H0239: 1, H0688: 1, H0644: 1, H0181: 1, H0617: 1, H0606: 1, S0438: 1, L0769: 1, L0761: 1, L0803: 1, H0547: 1, S0126: 1, H0658: 1, H0672: 1, H0651: 1, S0404: 1, S0406: 1, H0436: 1, L0748: 1, L0751: 1 and S0276: 1.	186580, 191092, 600140, 600273, 601313, 601785
						AR060: 5, AR061: 3, AR104: 3, AR089: 3, AR096: 2, AR055: 2 S0206: 5, H0413: 3, S0028: 3, H0170: 2, S0212: 2, H0546: 2, H0266: 2, H0171: 1, S0040: 1, H0580: 1, H0208: 1, H0411: 1, H0437: 1, H0453: 1, H0427: 1, H0051: 1, S0051: 1, H0355: 1, S0003: 1, H0031: 1, H0412: 1, S0188: 1, S0390: 1, S0314: 1, S0027: 1 and S0031: 1.	

HLDASI1	1047937	738	224 - 958	2913	Asn-33 to Glu-41, Ala-58 to Ser-69, Ser-77 to Pro-84, Pro-97 to Pro-102, Ile-121 to Gln-128.	H0693: 636, H0637: 29, H0551: 16, L0748: 11, L0777: 7, H0069: 5, L0666: 4, L0157: 3, H0641: 3, L0766: 3, L0665: 3, L0758: 3, H0510: 2, H0615: 2, H0509: 2, L0663: 2, H0521: 2, L0751: 2, L0755: 2, H0542: 2, H0650: 1, H0657: 1, S0356: 1, S0376: 1, S0360: 1, H0431: 1, H0013: 1, H0618: 1, S0010: 1, H0581: 1, T0001: 1, H0052: 1, H0251: 1, H0596: 1, H0373: 1, H0083: 1, H0271: 1, S0250: 1, S0003: 1, S0214: 1, H0622: 1, H0553: 1, H0674: 1, H0038: 1, H0040: 1, H0272: 1, H0059: 1, T0041: 1, H0646: 1, L0598: 1, L0662: 1, L0768: 1, L0649: 1, L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0517: 1, L0382: 1, L0791: 1,		
---------	---------	-----	-----------	------	--	---	--	--

								H0144: 1, S0126: 1, H0690: 1, H0658: 1, H0648: 1, S0152: 1, S0146: 1, L0743: 1, L0439: 1, L0754: 1, L0749: 1, S0260: 1 and L0366: 1.			
HWMJB31	1048009	739	202 - 732	2914	Ile-1 to Thr-7, Glu-16 to Glu-33, Leu-37 to Ala-46, Leu-69 to Glu-80, Tyr-89 to Gln-111, Ser-121 to Cys-128, Pro-135 to Glu-156, Glu-162 to Thr-177.			S0358: 1			
HAZAA31	1048188	740	1480 - 185	2915				L0593: 16, L0591: 12, H0543: 9, L0667: 8, L0751: 8, H0581: 7, H0457: 7, H0617: 7, L0659: 7, S0418: 6, S0046: 6, H0494: 6, S0206: 6, S0116: 5, H0341: 5, H0402: 5, S0222: 5, H0271: 5, L0766: 5, H0521: 5, S0027: 5, L0740: 5, L0749: 5, L0595: 5, S0360: 4, H0486: 4, S0280: 4, H0024: 4, H0551: 4, L0372: 4,	3p14.3	150250, 164500, 277730, 600971, 601226	

									L0666: 4, H0519: 4, H0542: 4, H0656: 3, S0420: 3, S0356: 3, S0045: 3, H0052: 3, H0545: 3, H0050: 3, H0620: 3, S0051: 3, H0553: 3, H0135: 3, T0042: 3, L0475: 3, S0344: 3, L0769: 3, L0654: 3, L0663: 3, H0520: 3, S3014: 3, L0439: 3, L0777: 3, S0192: 3, S0424: 3, H0265: 2, H0556: 2, S0040: 2, H0657: 2, H0484: 2, S0376: 2, H0580: 2, S0007: 2, H0333: 2, H0575: 2, T0048: 2, H0421: 2, S0049: 2, H0046: 2, L0041: 2, H0266: 2, H0615: 2, L0483: 2, H0087: 2, H0413: 2, H0059: 2, H0561: 2, H0509: 2, L0771: 2, L0649: 2, L0775: 2, L0375: 2, L0809: 2, L0665: 2, H0144: 2, L0565: 2, L0438: 2, H0658: 2, H0555: 2,						
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

S0037: 2, L0741: 2, L0748: 2, L0754: 2, L0745: 2, L0757: 2, L0758: 2, H0445: 2, L0596: 2, L0599: 2, L0601: 2, T0002: 1, H0686: 1, S0402: 1, H0294: 1, T0049: 1, S0212: 1, S0001: 1, H0483: 1, H0669: 1, H0661: 1, H0663: 1, H0662: 1, H0306: 1, S0442: 1, S0358: 1, H0637: 1, S0140: 1, H0619: 1, H0393: 1, L0717: 1, S0278: 1, H0611: 1, H0610: 1, H0357: 1, H0613: 1, H0592: 1, H0497: 1, H0559: 1, H0256: 1, H0013: 1, H0427: 1, S0010: 1, S0346: 1, S0182: 1, H0318: 1, S0474: 1, H0172: 1, H0123: 1, L0471: 1, S0388: 1, T0010: 1, H0179: 1, H0687: 1, H0288: 1, H0284: 1, H0252: 1, H0428: 1, H0628: 1, H0181: 1,
--

HOCMC83	1048300	741	56 - 1465	2916	Gln-116 to Trp-124,	H0606: 1, L0055: 1, H0124: 1, H0090: 1, H0040: 1, T0067: 1, H0412: 1, H0100: 1, H0560: 1, H0130: 1, H0647: 1, H0646: 1, S0142: 1, S0210: 1, S0002: 1, H0529: 1, L0535: 1, L0770: 1, L0638: 1, L0796: 1, L0637: 1, L0643: 1, L0374: 1, L0764: 1, L0773: 1, L0662: 1, L0768: 1, L0774: 1, L0378: 1, L0658: 1, L0383: 1, L0382: 1, L0791: 1, L0664: 1, S0126: 1, H0689: 1, H0690: 1, H0682: 1, H0435: 1, H0670: 1, H0660: 1, H0666: 1, L0355: 1, S0378: 1, L0602: 1, H0134: 1, H0436: 1, L0750: 1, L0755: 1, S0031: 1, S0436: 1, L0608: 1, S0026: 1, H0653: 1, H0665: 1, H0667: 1, H0217: 1 and H0352: 1.
						H0253: 8, H0618: 6,

HCFC40	1048427	742	2 - 1330	2917	Leu-21 to Gly-27, Pro-73 to Leu-83.	Glu-154 to Glu-161, Glu-270 to Asn-278, Glu-360 to Trp-371, Asp-440 to Asp-445, Ser-450 to Leu-456.	L0758: 5, L0766: 4, H0620: 3, H0038: 3, L0794: 3, S0358: 2, H0687: 2, H0135: 2, L0508: 2, L0809: 2, L0787: 2, L0665: 2, H0520: 2, L0439: 2, H0650: 1, H0657: 1, S0222: 1, H0574: 1, H0318: 1, H0581: 1, S0049: 1, H0545: 1, H0566: 1, H0622: 1, H0033: 1, H0181: 1, H0617: 1, H0165: 1, H0264: 1, H0059: 1, L0564: 1, H0561: 1, S0150: 1, H0647: 1, L0769: 1, L0644: 1, L0768: 1, L0774: 1, L0375: 1, L0806: 1, L0509: 1, L0514: 1, L0510: 1, L0789: 1, L0438: 1, H0435: 1, H0660: 1, H0648: 1, H0696: 1, H0436: 1, H0627: 1 and L0731: 1.	3p21.3	116806, 120120, 120120, 120120,

AR052: 62, AR104: 48, AR096: 33, AR039: 25	120436, 120436, 120436, 138320, 168468, 182280, 600163
S0474: 21, H0683: 7, L0748: 7, H0251: 6, L0777: 5, S0422: 4, L0764: 4, L0766: 4, L0740: 4, L0754: 4, S0418: 3, H0046: 3, H0553: 3, H0521: 3, L0779: 3, L0752: 3, L0731: 3, L0757: 3, H0422: 3, H0713: 2, H0717: 2, H0733: 2, S0476: 2, H0441: 2, H0575: 2, H0428: 2, H0494: 2, L0659: 2, L0666: 2, H0547: 2, H0519: 2, L0439: 2, L0745: 2, L0749: 2, L0756: 2, L0758: 2, L0485: 2, S0026: 2, S0384: 2, H0716: 1, S0212: 1, H0661: 1, S0356: 1, S0444: 1, S0045: 1, S0046: 1, S0132: 1, H0645: 1, H0406: 1, S6022: 1, H0431: 1, H0587: 1, H0486: 1, T0040: 1,	

HVCAA65	1048595	743	1042 - 212	2918	Trp-1 to Gly-10, Gly-22 to Gly-29, Leu-82 to Val-88, Ala-116 to His-123,	H0013: 1, H0069: 1, H0156: 1, H0098: 1, H0581: 1, H0150: 1, H0024: 1, H0083: 1, S0025: 1, H0355: 1, H0328: 1, H0031: 1, H0124: 1, T0067: 1, H0413: 1, H0623: 1, H0560: 1, L0769: 1, L0667: 1, L0372: 1, L0767: 1, L0803: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0784: 1, L0655: 1, L0657: 1, L0783: 1, L0647: 1, L5622: 1, L5623: 1, L0664: 1, H0697: 1, S0374: 1, H0724: 1, H0520: 1, H0435: 1, H0710: 1, H0518: 1, S0152: 1, L0751: 1, L0759: 1, S0031: 1, H0445: 1, S0434: 1, S0436: 1, S0192: 1, S0424: 1 and L0600: 1.		
					S0440: 12, H0543: 11, H0341: 7, L0775: 6, L0591: 6, L0770: 5, L0766: 5, L0750: 5,			

Lys-144 to Phe-156, Phe-167 to Thr-181, Glu-202 to Asp-207, Glu-262 to Ser-277.	L0759: 5, L0588: 5, H0542: 5, S0360: 4, S0045: 4, H0486: 4, H0012: 4, S0372: 4, S0144: 4, L0755: 4, L0731: 4, L0758: 4, L0596: 4, S0114: 3, H0657: 3, S0132: 3, H0640: 3, H0545: 3, H0266: 3, H0413: 3, H0494: 3, L0598: 3, H0529: 3, L0521: 3, L0364: 3, L0657: 3, L0783: 3, L0809: 3, L0666: 3, L0665: 3, H0547: 3, H0519: 3, S0126: 3, H0659: 3, H0670: 3, L0777: 3, S0436: 3, L0595: 3, H0395: 2, H0265: 2, T0049: 2, H0484: 2, H0402: 2, H0125: 2, S0418: 2, S0408: 2, S0410: 2, H0580: 2, T0109: 2, H0575: 2, H0581: 2, H0546: 2, H0373: 2, H0510: 2, H0708: 2, H0412: 2, H0396: 2, L0763: 2, L0769: 2, L0774: 2,
--	--

L0805: 2, L0653: 2, L0776: 2, L0655: 2, L0513: 2, L0656: 2, L0558: 2, L0517: 2, H0666: 2, H0672: 2, S0328: 2, S0044: 2, S0406: 2, L0751: 2, L0747: 2, L0757: 2, L0597: 2, L0581: 2, L0599: 2, L0604: 2, S0026: 2, H0653: 2, H0422: 2, H0506: 2, H0556: 1, T0002: 1, H0686: 1, H0295: 1, H0583: 1, H0650: 1, S0298: 1, H0483: 1, H0305: 1, S0420: 1, S0356: 1, H0675: 1, S0046: 1, S6022: 1, H0432: 1, H0392: 1, H0586: 1, H0497: 1, H0333: 1, H0331: 1, H0250: 1, S0280: 1, L0021: 1, H0599: 1, H0042: 1, T0082: 1, S0010: 1, T0048: 1, H0052: 1, H0597: 1, L0738: 1, H0178: 1, H0123: 1, H0081: 1, L0471: 1, H0620: 1,
--

HPSI76	1048635	744	85 - 1578	2919	Phe-1 to Pro-12, Asp-182 to Pro-188,	H0071: 1, H0355: 1, H0687: 1, S0022: 1, H0039: 1, T0006: 1, H0031: 1, H0628: 1, H0135: 1, H0038: 1, H0087: 1, H0264: 1, T0042: 1, S0016: 1, H0560: 1, H0509: 1, H0633: 1, H0649: 1, S0142: 1, S0344: 1, S0208: 1, S0422: 1, L0520: 1, L0762: 1, L3904: 1, L0667: 1, L0771: 1, L0768: 1, L0381: 1, L0784: 1, L0652: 1, L0559: 1, L0636: 1, L0540: 1, L0518: 1, L0384: 1, S0374: 1, H0723: 1, H0690: 1, H0660: 1, H0648: 1, S0380: 1, S0152: 1, H0521: 1, H0522: 1, H0555: 1, S0392: 1, S0027: 1, S0028: 1, S0206: 1, L0743: 1, L0779: 1, L0780: 1, L0753: 1, H0707: 1 and H0712: 1.	5q31	121050, 131400,
--------	---------	-----	-----------	------	---	---	------	--------------------

					Arg-215 to Tyr-224, Gly-240 to Lys-247, Pro-279 to Gly-286, Leu-295 to Glu-308, Pro-326 to Tyr-331, Thr-343 to Arg-349, Tyr-354 to Ala-360, Lys-369 to Asp-375, Ser-426 to Asp-432.	H0295: 2, H0628: 2, L0776: 2, S3014: 2, L0439: 2, S0212: 1, S0418: 1, S0420: 1, H0734: 1, S0046: 1, S0476: 1, H0497: 1, T0040: 1, H0544: 1, H0545: 1, H0024: 1, S0003: 1, H0644: 1, H0038: 1, H0040: 1, H0413: 1, S0294: 1, H0633: 1, S0144: 1, L0372: 1, L0805: 1, L0654: 1, L5623: 1, L4501: 1, H0144: 1, L0438: 1, S0126: 1, H0683: 1, H0672: 1, H0539: 1, H0521: 1, H0631: 1, S0037: 1, S0434: 1, L0588: 1, L0599: 1, L0601: 1 and H0665: 1.	138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 601692, 602089, 602121, 602460	
HVVCH35	1048658	745	1107 - 91	2920	Ser-45 to Pro-51.	L0769: 5, L0759: 4, H0402: 3, S0376: 3, H0424: 3, L0749: 3, S0222: 2, L0535: 2, L0774: 2, L0806: 2, L0384: 2, L0666: 2, H0265: 1, S0218: 1, H0484: 1, S0354: 1,	22q13.33	

HOFNI66	1048739	746	3 - 710	2921	Thr-1 to Asp-9, Gly-18 to Ser-24, Asn-35 to Arg-42, Trp-49 to Asp-62, Ser-69 to Ala-74, Arg-155 to Trp-167,	S0444: 1, S0360: 1, S0007: 1, H0392: 1, H0559: 1, H0486: 1, T0039: 1, T0060: 1, L0021: 1, H0004: 1, H0581: 1, H0052: 1, H0194: 1, H0204: 1, H0024: 1, H0405: 1, H0617: 1, H0606: 1, H0090: 1, H0272: 1, H0494: 1, S0438: 1, S0422: 1, S0002: 1, L0770: 1, L0772: 1, L0372: 1, L0641: 1, L0645: 1, L0771: 1, L0768: 1, L0794: 1, L0381: 1, L0775: 1, L0789: 1, H0547: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, S0406: 1, H0727: 1, L0744: 1, L0779: 1, L0758: 1, H0445: 1, H0423: 1 and H0422: 1.		
					L0740: 10, L0752: 9, L0748: 8, S0422: 6, S0440: 5, L0666: 5, L0754: 5, S0360: 4, H0327: 4, L0771: 4, L0438: 4, S0126: 4,			

Leu-173 to Tyr-180, Arg-190 to Ala-197.	S0406: 4, L0779: 4, L0596: 4, S0444: 3, T0109: 3, H0575: 3, S0003: 3, L0805: 3, L0776: 3, L0809: 3, L0664: 3, L0665: 3, S0328: 3, H0696: 3, L0439: 3, L0755: 3, L0731: 3, H0543: 3, H0657: 2, H0662: 2, S0420: 2, S0356: 2, S0358: 2, S0408: 2, S0007: 2, H0415: 2, S0010: 2, H0046: 2, H0014: 2, H0083: 2, H0032: 2, H0674: 2, H0708: 2, H0090: 2, H0038: 2, H0272: 2, H0429: 2, H0494: 2, S0372: 2, S0438: 2, H0509: 2, L0598: 2, L0766: 2, L0649: 2, L0774: 2, L0775: 2, L0543: 2, L5622: 2, L0663: 2, H0144: 2, S0378: 2, L0602: 2, H0522: 2, S0028: 2, L0758: 2, L0588: 2, L0599: 2, S0026: 2, S0424: 2, H0170: 1,
--	--

	L0615: 1, H0717: 1, S0114: 1, S0116: 1, H0341: 1, S0212: 1, H0663: 1, H0458: 1, S0354: 1, S0376: 1, H0580: 1, H0730: 1, H0733: 1, S0045: 1, S0046: 1, H0619: 1, H0393: 1, L0717: 1, H0351: 1, H0369: 1, H0549: 1, H0431: 1, H0409: 1, H0586: 1, H0587: 1, H0574: 1, H0632: 1, H0486: 1, T0039: 1, L0586: 1, T0060: 1, H0250: 1, H0635: 1, H0156: 1, H0042: 1, H0274: 1, T0048: 1, H0581: 1, H0421: 1, H0251: 1, L0040: 1, H0545: 1, H0009: 1, H0123: 1, H0373: 1, S0214: 1, H0328: 1, H0031: 1, H0553: 1, H0598: 1, H0534: 1, H0135: 1, H0591: 1, H0616: 1, H0063: 1, H0264: 1, H0412: 1, H0059: 1, H0100: 1, L0475: 1,					
--	--	--	--	--	--	--

[illegible]

							AR053: 0, AR055: 0, AR039: 0 H0171: 1, S0444: 1 and S0002: 1.			
HSYBI49	1049151	748	2 - 805	2923			AR089: 15, AR096: 14, AR060: 12, AR039: 10, AR104: 8, AR053: 8, AR055: 4, AR033: 4, AR061: 3, AR052: 2 L0777: 17, H0521: 11, L0747: 6, L0649: 5, H0586: 4, L0664: 4, L0748: 4, L0749: 4, H0661: 3, S0132: 3, H0587: 3, H0509: 3, L0637: 3, L0662: 3, L0806: 3, L0665: 3, L0779: 3, S0358: 2, L0717: 2, T0040: 2, H0014: 2, H0494: 2, S0438: 2, L0451: 2, H0547: 2, H0435: 2, H0658: 2, H0648: 2, H0672: 2, L0602: 2, S0436: 2, H0543: 2, L0448: 1, S0476: 1, H0431: 1, H0592: 1, T0114: 1, L0021: 1, T0010: 1, H0188: 1,			

HTXSN37	1049372	749	1061 - 1864	2924	Thr-34 to Glu-47, Pro-82 to Ser-104, His-120 to Asn-126, His-129 to Pro-152, Cys-214 to Lys-220, Lys-261 to Ser-268.	T0023: 1, L0483: 1, H0551: 1, S0352: 1, H0633: 1, L0763: 1, L0761: 1, L0646: 1, L0648: 1, L4500: 1, L5568: 1, L0774: 1, L0775: 1, L0525: 1, L0653: 1, L0657: 1, H0690: 1, H0684: 1, S0378: 1, H0479: 1, L0754: 1, L0755: 1, L0759: 1, L0362: 1 and S0242: 1.		
---------	---------	-----	----------------	------	---	--	--	--

S0126: 4, H0648: 4, S0404: 4, S0434: 4, L0599: 4, H0543: 4, H0624: 3, H0224: 3, S0114: 3, S0116: 3, S0442: 3, H0549: 3, H0618: 3, H0620: 3, H0616: 3, H0264: 3, H0494: 3, S0002: 3, L0646: 3, L0764: 3, L0794: 3, L0804: 3, L0776: 3, L0783: 3, L0792: 3, S0374: 3, H0659: 3, H0521: 3, L0747: 3, L0756: 3, L0755: 3, L0758: 3, H0506: 3, H0341: 2, H0619: 2, H0645: 2, H0574: 2, T0060: 2, H0013: 2, H0156: 2, H0599: 2, S0474: 2, H0052: 2, H0251: 2, H0009: 2, S6028: 2, H0028: 2, H0428: 2, H0622: 2, H0553: 2, H0135: 2, H0090: 2, H0038: 2, H0634: 2, L0065: 2, H0509: 2, S0344: 2, S0426: 2, L0769: 2, L0637: 2,
--

					L0772: 2, L0648: 2, L0806: 2, L0438: 2, H0520: 2, H0670: 2, H0660: 2, H0672: 2, H0651: 2, S0328: 2, H0539: 2, S0378: 2, S0136: 2, S3012: 2, S3014: 2, S0206: 2, L0751: 2, L0746: 2, L0752: 2, S0436: 2, L0608: 2, L0601: 2, H0423: 2, H0171: 1, H0265: 1, H0556: 1, H0225: 1, H0686: 1, H0738: 1, H0657: 1, H0484: 1, H0661: 1, H0662: 1, H0589: 1, S0356: 1, S0376: 1, S0410: 1, T0008: 1, H0733: 1, H0208: 1, S0046: 1, H0640: 1, L0717: 1, H0351: 1, S0278: 1, H0550: 1, H0431: 1, H0461: 1, H0409: 1, H0299: 1, H0601: 1, H0333: 1, H0486: 1, H0190: 1, H0635: 1, S0010: 1, H0318: 1, H0007: 1, H0263: 1, H0596: 1,
--	--	--	--	--	--

			H0327: 1, H0544: 1, L0471: 1, H0051: 1, H0179: 1, H0687: 1, S0214: 1, H0252: 1, H0688: 1, H0039: 1, H0031: 1, H0032: 1, H0674: 1, H0124: 1, H0316: 1, H0591: 1, H0040: 1, H0063: 1, H0551: 1, H0059: 1, L0564: 1, T0041: 1, H0560: 1, S0440: 1, S0144: 1, S0142: 1, L0598: 1, H0529: 1, L0520: 1, L0640: 1, L0631: 1, L0638: 1, L0796: 1, L5566: 1, L0667: 1, L0643: 1, L0521: 1, L0767: 1, L5574: 1, L0375: 1, L0523: 1, L0653: 1, L0606: 1, L0807: 1, L0527: 1, L0512: 1, L0659: 1, L0517: 1, L0542: 1, L0382: 1, L0530: 1, L0787: 1, L0789: 1, L0790: 1, L0791: 1, L0664: 1, S0052: 1, H0519: 1, H0593: 1, S0122: 1,					
--	--	--	--	--	--	--	--	--

HMUBT31	1049466	750	2 - 1429	2925	Lys-45 to Asp-54, Thr-56 to Leu-63, Gln-227 to Thr-241, Glu-287 to Val-292, Gln-331 to Gly-337, Glu-402 to Asp-411, Glu-436 to Cys-441, Glu-454 to Glu-461.	H0684: 1, S0330: 1, H0518: 1, H0522: 1, H0478: 1, S0027: 1, S0028: 1, L0743: 1, L0744: 1, L0439: 1, L0740: 1, L0749: 1, L0786: 1, L0731: 1, L0757: 1, S0260: 1, H0444: 1, H0595: 1, L0584: 1, L0605: 1, L0581: 1, L0362: 1, H0653: 1, H0136: 1, S0192: 1, H0422: 1, S0424: 1, H0008: 1 and H0352: 1.		
						L0605: 28, L0754: 9, S0003: 6, L0803: 6, L0777: 5, L0759: 4, L0770: 3, L0663: 3, H0683: 3, L0439: 3, L0756: 3, L0599: 3, S0026: 3, H0171: 2, S0418: 2, H0587: 2, H0050: 2, L0483: 2, H0032: 2, H0591: 2, H0413: 2, L0772: 2, L0768: 2, L0649: 2, L0659: 2, L0666: 2, H0547: 2, H0519: 2, H0670: 2, S0380: 2,		

L0747: 2, L0731: 2, L0587: 2, L0591: 2, L0362: 2, S0192: 2, H0624: 1, T0049: 1, H0663: 1, H0402: 1, H0638: 1, S0376: 1, S0444: 1, S0360: 1, H0208: 1, S6026: 1, H0392: 1, H0635: 1, L0021: 1, H0575: 1, H0581: 1, H0052: 1, H0596: 1, H0597: 1, L0738: 1, H0544: 1, H0024: 1, S0051: 1, H0428: 1, H0622: 1, H0031: 1, H0553: 1, H0644: 1, H0169: 1, H0090: 1, H0038: 1, H0040: 1, H0100: 1, H0494: 1, H0560: 1, H0625: 1, H0646: 1, S0344: 1, H0538: 1, S0422: 1, H0529: 1, L0646: 1, L0662: 1, L0794: 1, L0387: 1, L0766: 1, L0804: 1, L0776: 1, L0527: 1, L0647: 1, L0665: 1, L0438: 1, L0352: 1, H0435: 1, H0658: 1,
--

								H0660: 1, H0672: 1, S0330: 1, S0378: 1, H0518: 1, H0521: 1, H0522: 1, L0779: 1, S0031: 1, H0444: 1, L0589: 1, L0592: 1 and L0608: 1.			
HFPDQ90	1049644	751	456 - 202	2926	Asp-74 to His-85.			S0134: 1, S0222: 1, L0774: 1, L0776: 1 and L0366: 1.	5q31	121050, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 601692, 602089, 602121, 602460	
HVVCB79	1050102	752	195 - 1205	2927	Glu-29 to Cys-39, Val-46 to Ser-52, Asn-58 to Gly-65, Cys-68 to His-82, Tyr-84 to Gly-94,			L0659: 19, S0476: 18, H0271: 18, S0152: 15, H0521: 12, L0666: 7, S0132: 6, H0494: 5, L0754: 5, L0601: 5,	10q24	157640, 174900, 180250, 186770, 236730,	

				Leu-122 to Trp-138, Ala-158 to Leu-170, Gly-175 to Arg-182, Tyr-203 to Ser-210, Gly-246 to Met-258, Arg-288 to Gln-296	S0360: 4, L0771: 4, L0653: 4, L0751: 4, H0295: 3, H0486: 3, H0635: 3, H0416: 3, H0615: 3, L0662: 3, S0428: 3, L0748: 3, L0747: 3, L0731: 3, H0661: 2, S0376: 2, H0437: 2, H0587: 2, H0485: 2, T0039: 2, H0318: 2, H0545: 2, H0620: 2, H0266: 2, H0090: 2, H0623: 2, L0763: 2, L0646: 2, L0642: 2, L0774: 2, L0775: 2, L0378: 2, L0806: 2, L0664: 2, S0374: 2, H0519: 2, S0406: 2, L0439: 2, L0779: 2, L0755: 2, L0604: 2, L0698: 2, H0149: 1, H0686: 1, H0713: 1, S0212: 1, H0255: 1, S0408: 1, H0637: 1, S0046: 1, H0411: 1, S0278: 1, H0599: 1, H0251: 1, H0457: 1, H0024: 1, H0014: 1, H0328: 1, H0553: 1, H0644: 1,			271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
--	--	--	--	---	--	--	--	---

HDPGR19	1050167	753	2 - 670	2928	Ala-32 to Arg-48, Cys-138 to Ser-147, Lys-161 to Glu-166, Pro-179 to Asn-189.	H0598: 1, H0634: 1, H0268: 1, H0056: 1, L0564: 1, S0344: 1, S0002: 1, S0426: 1, L0770: 1, L0372: 1, L0641: 1, L0645: 1, L0648: 1, L0767: 1, L0649: 1, L0389: 1, L0388: 1, L0803: 1, L0654: 1, L0793: 1, L0665: 1, S0052: 1, S0053: 1, S0216: 1, H0658: 1, H0672: 1, H0518: 1, H0522: 1, H0696: 1, L0750: 1, L0752: 1, H0445: 1, S0436: 1, L0596: 1, S0458: 1 and H0506: 1.		
					AR055: 2, AR033: 1, AR089: 1, AR060: 1, AR096: 1, AR039: 0, AR061: 0, AR052: 0, AR053: 0 H0521: 36, L0754: 20, L0748: 13, L0740: 12, L0439: 9, S0440: 8, H0522: 8, L0777: 8, H0580: 7, H0641: 7, L0659: 7, S0126: 7, S0436: 7, H0638: 6,			

H0616: 6, L0757: 6, L0758: 6, H0486: 5, S0438: 5, S0002: 5, L0775: 5, L0809: 5, S0408: 4, H0574: 4, H0553: 4, S0344: 4, L0805: 4, L0655: 4, L0664: 4, H0518: 4, L0744: 4, L0747: 4, L0749: 4, H0624: 3, S0376: 3, S0360: 3, S0410: 3, H0004: 3, H0581: 3, S0003: 3, S0214: 3, H0428: 3, H0622: 3, H0038: 3, S0142: 3, H0529: 3, L0646: 3, L0771: 3, L0521: 3, L0662: 3, H0689: 3, H0658: 3, S0330: 3, L0779: 3, L0731: 3, L0759: 3, S0342: 2, H0717: 2, S0356: 2, S0444: 2, H0599: 2, H0318: 2, H0457: 2, T0003: 2, H0024: 2, H0057: 2, H0179: 2, H0674: 2, H0591: 2, H0561: 2, L0770: 2, L0769: 2, L0627: 2, L0641: 2,					
--	--	--	--	--	--

	L0649: 2, L0803: 2, L0653: 2, L0776: 2, L0791: 2, L0666: 2, S0374: 2, L0438: 2, H0547: 2, H0593: 2, H0659: 2, H0670: 2, S0152: 2, H0696: 2, H0436: 2, L0751: 2, L0750: 2, L0752: 2, L0591: 2, L0581: 2, L0593: 2, L0362: 2, S0242: 2, H0170: 1, H0556: 1, H0686: 1, H0713: 1, H0294: 1, H0583: 1, L0415: 1, L0808: 1, L0785: 1, H0663: 1, S0418: 1, S0442: 1, S0358: 1, H0637: 1, H0735: 1, H0733: 1, H0339: 1, S0132: 1, H0393: 1, H0411: 1, S0278: 1, S0222: 1, H0601: 1, H0586: 1, H0587: 1, H0333: 1, H0331: 1, L0586: 1, H0013: 1, H0250: 1, H0069: 1, H0505: 1, S0474: 1, H0052: 1, H0596: 1, H0546: 1, H0545: 1,					
--	--	--	--	--	--	--

			H0046: 1, H0123: 1, H0014: 1, H0373: 1, S0051: 1, H0510: 1, H0266: 1, S0318: 1, S0316: 1, H0328: 1, H0688: 1, H0031: 1, H0032: 1, H0673: 1, H0169: 1, H0598: 1, H0090: 1, T0069: 1, H0100: 1, T0041: 1, T0042: 1, S0370: 1, H0633: 1, H0646: 1, S0426: 1, L0369: 1, L0763: 1, L0638: 1, L0372: 1, L0644: 1, L0764: 1, L0766: 1, L0381: 1, L0774: 1, L0376: 1, L0806: 1, L0652: 1, L0607: 1, L0527: 1, L0515: 1, L0542: 1, L0789: 1, L0663: 1, L0665: 1, S0052: 1, L0352: 1, H0520: 1, H0519: 1, H0690: 1, H0660: 1, S0380: 1, S0350: 1, S0146: 1, S0406: 1, S3014: 1, S0027: 1, L0756: 1, S0031: 1, H0445: 1, S0434: 1,					
--	--	--	--	--	--	--	--	--

HVVDX63	1050256	754	2483 - 1299	2929	Ala-1 to Ser-19, Gln-50 to Ala-69, Lys-113 to Lys-120, Thr-132 to Trp-147, Glu-162 to Gly-172, Leu-185 to Ser-219, Thr-226 to Tyr-234, Pro-288 to Pro-304, Glu-312 to Lys-324, Cys-344 to Gly-355.	L0592: 1, S0026: 1, H0667: 1, S0192: 1, S0194: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1, S0458: 1, H0352: 1 and H0712: 1. H0556: 10, L0758: 9, L0777: 7, H0422: 7, H0271: 6, H0265: 5, H0179: 5, H0634: 5, L0747: 5, L0766: 4, L0664: 4, L0751: 4, H0542: 4, H0423: 4, H0657: 3, S0476: 3, H0069: 3, H0641: 3, L0761: 3, H0555: 3, H0436: 3, L0757: 3, H0222: 2, S0132: 2, H0486: 2, H0553: 2, H0551: 2, L0631: 2, L0769: 2, L0667: 2, L0772: 2, L0662: 2, L0378: 2, L0809: 2, S0052: 2, H0658: 2, H0672: 2, S0328: 2, H0518: 2, L0749: 2, L0750: 2, H0445: 2, L0596: 2, L0362: 2, H0653: 2, H0220: 1, H0713: 1, S0218: 1,		
---------	---------	-----	----------------	------	---	--	--	--

	H0663: 1, H0402: 1, S0418: 1, S0442: 1, S0376: 1, S0444: 1, S0046: 1, H0392: 1, N0009: 1, H0042: 1, H0575: 1, S0474: 1, H0581: 1, H0085: 1, H0546: 1, H0545: 1, H0457: 1, H0050: 1, H0014: 1, H0093: 1, H0083: 1, H0060: 1, H0247: 1, H0687: 1, H0622: 1, L0483: 1, S0368: 1, H0032: 1, H0040: 1, H0623: 1, H0561: 1, H0633: 1, H0646: 1, S0142: 1, S0002: 1, L0770: 1, L0646: 1, L0764: 1, L0768: 1, L0364: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0607: 1, L0657: 1, L0658: 1, L0382: 1, L0789: 1, L0791: 1, L0666: 1, L0665: 1, H0701: 1, H0593: 1, H0435: 1, H0659: 1, H0522: 1, S3014: 1, L0744: 1, L0748: 1,	
--	--	--

HNOJA87	1050282	755	616 - 2415	2930	Ser-35 to Glu-40, Leu-43 to Lys-63, Gln-88 to Tyr-97, Gln-156 to Glu-161, Val-218 to Phe-223, Ser-229 to Cys-237, Phe-323 to Ala-332, Phe-334 to Ser-339, Glu-357 to Gly-362, Ser-382 to Pro-391, Ser-403 to His-411, Asp-414 to Leu-425, Pro-429 to Arg-444, Ser-481 to Asn-486, Asp-495 to Lys-503, Asn-508 to Leu-514, Lys-528 to Ser-544, Asp-565 to Tyr-576, Leu-578 to Gly-584, Lys-591 to Asn-600,	L0731: 1, S0196: 1 and H0506: 1. L0758: 8, L0439: 7, S0003: 6, L0602: 6, L0665: 5, S0330: 5, H0521: 5, L0755: 5, L0731: 5, L0483: 4, L0598: 4, L0766: 4, L0775: 4, L0666: 4, L0748: 4, H0423: 4, H0170: 3, H0580: 3, H0441: 3, H0687: 3, S0022: 3, L0659: 3, H0144: 3, H0547: 3, L0740: 3, L0751: 3, L0596: 3, H0411: 2, H0250: 2, S0280: 2, H0575: 2, H0051: 2, H0083: 2, H0031: 2, UNKWN: 2, L0763: 2, L0776: 2, L0664: 2, S0148: 2, L0438: 2, H0660: 2, S0328: 2, S0380: 2, L0747: 2, L0777: 2, L0590: 2, L0592: 2, L0581: 2, L0594: 2, L0362: 2, S0194: 2, H0624: 1, T0002: 1, H0140: 1, H0685: 1, S0040: 1,	2q31	100690, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321
---------	---------	-----	------------	------	--	---	------	---

S0134: 1, H0583: 1, S0116: 1, S0001: 1, H0483: 1, H0664: 1, S0420: 1, S0354: 1, S0358: 1, S0360: 1, H0431: 1, H0600: 1, H0592: 1, H0586: 1, H0587: 1, T0114: 1, H0013: 1, H0427: 1, H0098: 1, H0004: 1, S0010: 1, H0581: 1, H0421: 1, H0596: 1, H0545: 1, H0050: 1, L0471: 1, H0024: 1, H0014: 1, H0373: 1, H0375: 1, H0266: 1, H0428: 1, H0070: 1, H0039: 1, H0644: 1, H0032: 1, H0598: 1, H0591: 1, H0040: 1, H0616: 1, H0551: 1, T0067: 1, H0647: 1, L0770: 1, L0769: 1, L0638: 1, L0646: 1, L0764: 1, L0648: 1, L0521: 1, L0549: 1, L0389: 1, L0806: 1, L0652: 1, L0655: 1, L0607: 1, L0526: 1, L0783: 1, S0053: 1,
--

HTPGI65	1050419	756	56 - 1273	2931	<p>Ser-55 to Thr-60, Glu-97 to Ser-103, Thr-164 to Glu-170, Gly-192 to Gly-197, Leu-204 to Ser-218, Ala-238 to Ser-250, Asp-265 to Tyr-292, Gly-298 to Gly-307, Gly-351 to Met-359, Phe-389 to Glu-400.</p>	<p>T0068: 1, H0684: 1, H0670: 1, S0378: 1, H0518: 1, H0696: 1, S0406: 1, H0436: 1, L0754: 1, L0750: 1, L0753: 1, L0759: 1, H0445: 1, S0434: 1, L0599: 1, L0608: 1, L0366: 1, S0026: 1, H0667: 1, S0242: 1, H0422: 1 and S0424: 1.</p>	1q32.2	145260, 600759, 601975
---------	---------	-----	-----------	------	---	---	--------	------------------------------

			H0553: 2, L0646: 2, L0649: 2, L0664: 2, S0374: 2, H0520: 2, H0689: 2, H0682: 2, H0660: 2, S0330: 2, H0555: 2, L0750: 2, L0596: 2, S0430: 1, H0483: 1, H0671: 1, H0661: 1, S0360: 1, H0549: 1, H0431: 1, H0574: 1, H0632: 1, H0270: 1, T0040: 1, T0060: 1, H0590: 1, H0085: 1, H0263: 1, L0040: 1, H0597: 1, H0231: 1, H0316: 1, H0040: 1, H0059: 1, H0117: 1, S0448: 1, S0464: 1, S0306: 1, H0509: 1, H0130: 1, L0763: 1, L0627: 1, L0374: 1, L0765: 1, L0648: 1, L0803: 1, L0774: 1, L0775: 1, L0806: 1, L0652: 1, L0653: 1, L0776: 1, L0540: 1, L0518: 1, L0782: 1, L0382: 1, L0809: 1, L0790: 1, H0547: 1, H0658: 1,					
--	--	--	--	--	--	--	--	--

HHFGN14	1050536	757	1791 - 2738	2932	Pro-7 to Ala-17, Pro-28 to Gln-38, Asp-58 to Ser-78, Phe-113 to Asp-120, Tyr-171 to Glu-177, Gln-237 to Gln-246.	H0670: 1, H0672: 1, S0328: 1, S0380: 1, S0404: 1, H0478: 1, S0432: 1, L0752: 1, L0591: 1, L0608: 1 and H0506: 1. S0280: 3, H0581: 3, H0622: 3, H0690: 3, L0751: 3, H0506: 3, S0356: 2, H0670: 2, H0254: 1, S0046: 1, H0411: 1, H0438: 1, H0600: 1, H0632: 1, H0635: 1, H0599: 1, H0009: 1, H0050: 1, H0023: 1, T0010: 1, H0375: 1, H0687: 1, H0039: 1, S0364: 1, H0509: 1, L0527: 1, S0052: 1, H0693: 1, L0438: 1, H0593: 1, H0689: 1, H0660: 1, S0378: 1, H0555: 1, S0392: 1, S0390: 1, S0037: 1 and S0196: 1.	12q13	10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153	
HTAIN76	1050553	758	83 - 1300	2933	Pro-19 to Ala-25, Pro-30 to Gly-50, Arg-66 to Gly-78.	L0740: 12, L0653: 6, L0665: 6, H0150: 5, L0439: 5, H0688: 4, L0771: 4 L0659: 4,			

L0809: 4, L0751: 4, L0747: 4, L0749: 4, L0779: 4, L0601: 4, S0420: 3, H0486: 3, H0620: 3, H0494: 3, L0662: 3, L0757: 3, S0040: 2, H0662: 2, S0007: 2, H0549: 2, S0222: 2, H0009: 2, H0123: 2, H0024: 2, H0606: 2, H0634: 2, H0413: 2, H0100: 2, L0769: 2, L0794: 2, L0649: 2, L0803: 2, L0655: 2, L0382: 2, L0666: 2, L0731: 2, L0758: 2, L0759: 2, L0605: 2, H0170: 1, T0049: 1, H0663: 1, L0005: 1, S0045: 1, S0046: 1, H0619: 1, H0550: 1, S0220: 1, L0468: 1, H0587: 1, H0643: 1, H0574: 1, H0632: 1, H0635: 1, T0048: 1, H0505: 1, H0597: 1, H0546: 1, H0545: 1, H0046: 1, N0007: 1, H0188: 1, H0622: 1, T0023: 1,				
--	--	--	--	--

HLYBO89	1050702	759	3 - 557	2934	Pro-1 to Thr-10, Ser-25 to Ile-46, Glu-76 to Ile-82, Ile-89 to Gly-95, Lys-109 to Glu-118, Asp-127 to Gly-132, Glu-148 to Leu-155, Glu-161 to Glu-172.	H0213: 1, L0142: 1, H0135: 1, H0551: 1, H0059: 1, H0509: 1, L0763: 1, L0770: 1, L0637: 1, L0768: 1, L0775: 1, L0375: 1, L0805: 1, L0776: 1, L0629: 1, L0657: 1, L0789: 1, L0532: 1, L0663: 1, L0664: 1, H0144: 1, H0519: 1, H0690: 1, H0435: 1, H0658: 1, H0672: 1, S0378: 1, H0521: 1, S0037: 1, L0743: 1, L0748: 1, L0756: 1, L0780: 1, L0752: 1, L0591: 1, H0667: 1, S0242: 1 and S0276: 1.	AR089: 11, AR104: 9, Xq28 AR060: 6, AR096: 3, AR061: 3, AR055: 2 L0803: 7, H0024: 5, L0805: 5, L0750: 5, S0026: 5, H0208: 3, S0440: 3, L0769: 3, S0126: 3, H0670: 3, S0330: 3, S0152: 3, H0411: 2, S0222: 2, S0010: 2, H0046: 2,	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201,
---------	---------	-----	---------	------	---	--	--	---

H0123: 2, L0471: 2, H0428: 2, H0616: 2, H0087: 2, L0763: 2, L0764: 2, L0766: 2, L0375: 2, L0666: 2, H0659: 2, L0740: 2, L0758: 2, L0759: 2, H0445: 2, L0599: 2, H0170: 1, H0686: 1, H0344: 1, L0002: 1, H0657: 1, H0306: 1, S0356: 1, S0358: 1, S0376: 1, T0008: 1, S0132: 1, H0455: 1, L0021: 1, L0022: 1, H0263: 1, H0572: 1, H0050: 1, H0620: 1, H0051: 1, H0083: 1, H0375: 1, S6028: 1, H0687: 1, S0022: 1, H0615: 1, H0688: 1, H0031: 1, H0708: 1, H0068: 1, H0038: 1, H0264: 1, H0272: 1, T0042: 1, H0561: 1, S0144: 1, L0598: 1, H0529: 1, L0631: 1, L0770: 1, L0637: 1, L0800: 1, L0794: 1, L0806: 1, L0382: 1,	301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300,
--	--

HMEKJ82	1050767	760	1 - 597	2935	Arg-10 to Lys-24, Phe-50 to Arg-57.	L0809: 1, L0787: 1, L0665: 1, H0144: 1, S0374: 1, H0666: 1, S0380: 1, H0696: 1, S3012: 1, S0032: 1, L0747: 1, L0749: 1, L0777: 1, L0752: 1, L0753: 1, L0757: 1, S0434: 1, S0011: 1, S0276: 1 and H0542: 1.			314400
						AR089: 2, AR096: 1, AR104: 1, AR060: 0, AR061: 0, AR055: 0 S0414: 6, L0754: 6, L0803: 4, H0032: 3, L0774: 3, L0665: 3, L0752: 3, S0418: 2, L0005: 2, H0580: 2, H0431: 2, H0553: 2, H0673: 2, S0422: 2, L0598: 2, L0666: 2, L0748: 2, S0436: 2, L0589: 2, L0603: 2, S0001: 1, L0717: 1, H0415: 1, H0013: 1, H0635: 1, S0280: 1, H0581: 1, S0051: 1, H0266: 1, S0214: 1, H0428: 1, H0598: 1, H0616: 1, S0438: 1,			

HOFNX17	1050969	761	47 - 604	2936	Ile-13 to Gly-19, Thr-21 to Gln-28, Lys-38 to Ser-45, Glu-62 to Tyr-68, Val-72 to Gly-77, Pro-87 to Ser-93, Thr-117 to Gln-126, Gln-133 to Leu-139.	S0440: 1, H0641: 1, H0633: 1, H0646: 1, UNKWN: 1, L0646: 1, L0662: 1, L0766: 1, L0659: 1, L0783: 1, L0809: 1, L0790: 1, L0532: 1, H0658: 1, H0521: 1, S0406: 1, L0751: 1, L0779: 1, L0599: 1, S0011: 1, H0423: 1, H0422: 1, S0042: 1 and H0506: 1.	9q11-q22	229600, 264300, 600542, 602014, 602088
HAOSY21	1051095	762	153 - 425	2937	Asn-26 to Gly-31, Cys-44 to Asp-50, Gln-85 to Glu-91.	H0657: 2, H0686: 1, H0341: 1, L0493: 1, H0144: 1, H0689: 1, L0757: 1 and L0596: 1.		
HMWDB39	1051115	763	2 - 598	2938	Ala-1 to Gly-7, Ser-20 to Gly-36, Glu-107 to Thr-112, Glu-114 to Pro-119.	S0474: 13, L0758: 13, L0439: 11, L0754: 11, L0752: 10, H0581: 9, L0766: 9, L0740: 9, L0769: 8, H0423: 8, H0547: 7, L0750: 7,		

L0777: 7, H0013: 6, H0445: 6, L0599: 6, L0005: 5, S0358: 5, S0360: 5, S0414: 5, H0575: 5, L0776: 5, S0126: 5, H0648: 5, H0521: 5, H0171: 4, H0583: 4, H0341: 4, S0212: 4, H0580: 4, H0619: 4, H0427: 4, S0010: 4, S0346: 4, H0046: 4, H0457: 4, H0551: 4, L0763: 4, L0794: 4, L0803: 4, L0666: 4, H0522: 4, L0759: 4, H0543: 4, H0663: 3, H0638: 3, S0442: 3, S0007: 3, S0222: 3, H0244: 3, S0003: 3, H0591: 3, H0040: 3, T0042: 3, S0142: 3, H0529: 3, L0770: 3, L0637: 3, L0771: 3, L0662: 3, L0774: 3, L0805: 3, L0655: 3, L0663: 3, L0664: 3, L0665: 3, H0659: 3, H0670: 3, S0330: 3, H0539: 3, S0152: 3, H0626: 3,
--

	L0744: 3, L0745: 3, L0756: 3, L0731: 3, H0542: 3, H0624: 2, H0650: 2, S0444: 2, H0052: 2, H0544: 2, H0123: 2, H0024: 2, H0014: 2, H0615: 2, L0483: 2, H0032: 2, H0598: 2, H0090: 2, H0269: 2, H0207: 2, H0641: 2, S0344: 2, S0208: 2, S0422: 2, L0369: 2, L0775: 2, L0806: 2, H0519: 2, H0435: 2, S0380: 2, S0406: 2, H0555: 2, L0746: 2, L0747: 2, L0755: 2, L0596: 2, L0588: 2, S0011: 2, H0653: 2, S0196: 2, H0422: 2, S0424: 2, S0462: 2, H0170: 1, L0615: 1, S0040: 1, T0049: 1, S0218: 1, L0002: 1, H0657: 1, S0116: 1, S0110: 1, H0449: 1, H0125: 1, S0420: 1, S0356: 1, S0354: 1, S0376: 1, H0208: 1, S0046: 1,					
--	--	--	--	--	--	--

S0132: 1, S0300: 1, L0717: 1, H0437: 1, H0587: 1, T0039: 1, L0586: 1, T0060: 1, H0250: 1, H0156: 1, H0042: 1, H0036: 1, H0037: 1, H0004: 1, H0421: 1, S0049: 1, H0596: 1, H0597: 1, H0545: 1, H0570: 1, H0571: 1, H0569: 1, H0015: 1, H0020: 1, S0388: 1, S0051: 1, H0354: 1, H0510: 1, S6028: 1, S0214: 1, H0328: 1, H0688: 1, H0039: 1, T0006: 1, H0030: 1, H0644: 1, H0212: 1, S0036: 1, H0038: 1, H0372: 1, H0634: 1, H0616: 1, T0067: 1, H0264: 1, H0488: 1, H0413: 1, T0069: 1, S0440: 1, H0647: 1, H0646: 1, H0649: 1, S0002: 1, S0426: 1, L0598: 1, L0762: 1, L0638: 1, L0667: 1, L0772: 1, L0641: 1, L0642: 1,
--

HAOSZ53	1051246	764	2 - 403	2939	Ala-3 to Arg-8, Asp-48 to Gly-64, Asp-101 to Ser-111.	L0764: 1, L0773: 1, L0767: 1, L0387: 1, L0649: 1, L0804: 1, L0606: 1, L0661: 1, L0807: 1, L0527: 1, L0657: 1, L0659: 1, L0526: 1, L0518: 1, L0783: 1, L0809: 1, L0529: 1, L0532: 1, S0428: 1, H0701: 1, S0374: 1, L0438: 1, L0352: 1, H0593: 1, H0690: 1, H0682: 1, H0660: 1, S0328: 1, H0710: 1, H0214: 1, S0037: 1, S3014: 1, L0748: 1, L0751: 1, L0757: 1, S0031: 1, H0444: 1, S0436: 1, L0485: 1, L0608: 1, L0593: 1, L0594: 1, S0026: 1, H0136: 1, S0192: 1 and H0677: 1.	L0751: 4, S0358: 3, L0740: 3, S0418: 2, S0376: 2, H0318: 2, H0623: 2, S0210: 2, L0438: 2, L0741: 2, L0439: 2, L0747: 2, H0506: 2, H0171: 1,	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
---------	---------	-----	---------	------	---	--	---	-------	--

HSODP14	1051256	765	130 - 549	2940	Ala-10 to His-29.	H0686: 1, H0656: 1, H0484: 1, S0420: 1, S0356: 1, S6016: 1, H0592: 1, H0333: 1, H0427: 1, S0474: 1, H0546: 1, H0081: 1, H0050: 1, L0163: 1, H0594: 1, H0267: 1, H0124: 1, H0135: 1, H0412: 1, H0056: 1, H0059: 1, H0494: 1, H0509: 1, H0633: 1, L0521: 1, H0547: 1, S0126: 1, S0328: 1, S0330: 1, S0380: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0748: 1, L0750: 1, L0731: 1, L0596: 1, H0665: 1, S0276: 1 and H0543: 1.	H0596: 1, H0046: 1, H0032: 1 and H0595: 1.	2q23-q31	100690, 120180, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600.
---------	---------	-----	-----------	------	-------------------	--	---	----------	--

								266100, 600258, 600321	
HWLXZ72	1051319	766	2 - 199	2941	Pro-1 to Trp-12.		H0659: 4, L0747: 4, S0474: 3, L0777: 3, S0360: 2, L0653: 2, L0659: 2, L0756: 2, H0686: 1, H0449: 1, H0587: 1, H0413: 1, H0494: 1, S0002: 1, L0770: 1, L0662: 1, L0767: 1, L0803: 1, L0776: 1, L0655: 1, L0665: 1, L0757: 1 and S0194: 1.		
HUSGQ45	1051410	767	3 - 527	2942	Arg-17 to Gln-24, Tyr-39 to Tyr-47, Arg-50 to Leu-57, Lys-59 to Asn-66, Asn-78 to Val-91, Ser-94 to Ser-133, Thr-139 to Lys-175.		L0766: 4, H0090: 3, H0266: 2, H0529: 2, L0803: 2, L0774: 2, L0754: 2, L0747: 2, L0779: 2, L0759: 2, S0114: 1, H0583: 1, H0638: 1, S0356: 1, S0376: 1, H0676: 1, S0410: 1, H0580: 1, H0619: 1, S0222: 1, H0318: 1, H0373: 1, S0003: 1, H0328: 1, H0040: 1, H0616: 1, H0412: 1, L0772: 1, L0800: 1, L0789: 1,		

755

									S0366: 2, H0560: 2, H0561: 2, S0438: 2, H0509: 2, S0426: 2, H0529: 2, L0369: 2, L0648: 2, L0497: 2, L0784: 2, L0526: 2, L0532: 2, H0547: 2, H0519: 2, H0435: 2, H0670: 2, H0648: 2, S0328: 2, H0539: 2, S0378: 2, H0696: 2, S0404: 2, S0406: 2, H0436: 2, L0740: 2, L0750: 2, L0752: 2, L0588: 2, L0604: 2, S0026: 2, H0686: 1, H0713: 1, H0650: 1, S0212: 1, H0484: 1, H0255: 1, H0663: 1, H0458: 1, S0418: 1, S0442: 1, H0637: 1, H0645: 1, S0278: 1, H0369: 1, H0608: 1, H0600: 1, H0592: 1, H0587: 1, H0485: 1, H0270: 1, T0060: 1, H0427: 1, H0599: 1, H0349: 1, H0706: 1, H0036: 1, H0581: 1, H0052: 1, H0123: 1,						
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

			H0355: 1, H0510: 1, H0615: 1, H0428: 1, H0030: 1, H0169: 1, S0364: 1, L0455: 1, H0038: 1, T0067: 1, H0488: 1, H0059: 1, H0494: 1, S0472: 1, H0646: 1, H0652: 1, H0538: 1, S0422: 1, S0002: 1, L0506: 1, L0769: 1, L0764: 1, L0773: 1, L0521: 1, L0649: 1, L0560: 1, L0522: 1, L0774: 1, L0776: 1, L0655: 1, L0606: 1, L0527: 1, L0656: 1, L0558: 1, L0518: 1, L0789: 1, L0664: 1, H0144: 1, H0698: 1, H0702: 1, S0374: 1, T0068: 1, S0148: 1, L0438: 1, H0593: 1, H0660: 1, S0380: 1, H0518: 1, H0521: 1, H0522: 1, S0044: 1, H0478: 1, S0027: 1, L0754: 1, H0445: 1, S0434: 1, L0485: 1, L0581: 1, L0599: 1, L0362: 1,					
--	--	--	--	--	--	--	--	--

HNOJR48	1051533	769	34 - 1377	2944			S0194: 1, H0542: 1, H0543: 1, S0384: 1 and H0506: 1. L0748: 10, L0747: 10, 6p21.3 L0662: 9, L0596: 7, H0265: 6, L0666: 6, L0758: 6, H0081: 5, L0766: 5, L0665: 5, L0744: 5, L0750: 5, S0418: 4, H0617: 4, H0529: 4, L0659: 4, L0663: 4, H0144: 4, H0547: 4, H0657: 3, H0661: 3, S0046: 3, H0188: 3, H0687: 3, H0135: 3, H0551: 3, S0440: 3, H0647: 3, L0775: 3, L0655: 3, L0664: 3, S0406: 3, L0743: 3, L0740: 3, L0751: 3, L0731: 3, H0445: 3, L0591: 3, H0543: 3, H0423: 3, H0686: 2, S0134: 2, S0420: 2, S0358: 2, H0013: 2, H0635: 2, H0618: 2, S0010: 2, H0545: 2, N0006: 2, L0471: 2, H0622: 2, L0455: 2, H0412: 2, 106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
---------	---------	-----	-----------	------	--	--	---

					H0100: 2, H0494: 2, L0769: 2, L0646: 2, L0774: 2, L0375: 2, L0653: 2, L0776: 2, L0517: 2, L0438: 2, H0660: 2, H0521: 2, H0696: 2, L0753: 2, L0755: 2, L0757: 2, L0759: 2, L0587: 2, L0597: 2, L0581: 2, H0542: 2, H0352: 2, H0170: 1, H0556: 1, H0295: 1, S0114: 1, H0381: 1, H0341: 1, S0212: 1, H0484: 1, H0663: 1, H0589: 1, L0005: 1, S0360: 1, H0580: 1, S0007: 1, S0045: 1, L0717: 1, H0351: 1, H0369: 1, H0609: 1, H0455: 1, H0497: 1, H0333: 1, H0642: 1, H0486: 1, T0060: 1, H0250: 1, H0156: 1, H0575: 1, T0082: 1, H0706: 1, H0036: 1, H0253: 1, H0390: 1, H0318: 1, H0581: 1, H0374: 1, H0052: 1, H0309: 1,	
--	--	--	--	--	--	--

	H0231: 1, H0439: 1, H0150: 1, H0050: 1, H0024: 1, T0010: 1, H0354: 1, H0266: 1, H0615: 1, H0428: 1, L0194: 1, L0483: 1, H0096: 1, T0006: 1, H0031: 1, H0644: 1, L0142: 1, H0181: 1, H0606: 1, L0055: 1, L0456: 1, S0366: 1, H0090: 1, H0591: 1, H0038: 1, H0040: 1, H0087: 1, S0038: 1, H0022: 1, T0041: 1, T0042: 1, S0438: 1, H0509: 1, S0150: 1, H0641: 1, S0344: 1, H0538: 1, S0210: 1, S0422: 1, S0426: 1, L0369: 1, L0762: 1, L0763: 1, L0638: 1, L0372: 1, L0642: 1, L0764: 1, L0521: 1, L0626: 1, L0767: 1, L0768: 1, L0364: 1, L0387: 1, L0386: 1, L0533: 1, L0651: 1, L0633: 1, L0657: 1, L0542: 1, L0518: 1,	
--	--	--

HKIXH35	1051883	770	2 - 994	2945	Lys-7 to Glu-27, Ser-48 to Gln-53, Gln-58 to Pro-69, Ala-84 to Tyr-93, Ala-114 to Leu-127, Ser-173 to Arg-180, Met-188 to Pro-193, Pro-200 to Leu-205, Ile-228 to Asp-233, Gln-271 to Cys-281, Glu-289 to Cys-304.	L0383: 1, L0528: 1, L0788: 1, L0791: 1, L0532: 1, H0697: 1, H0519: 1, H0593: 1, H0672: 1, H0539: 1, S0152: 1, S0404: 1, H0555: 1, H0436: 1, H0478: 1, H0479: 1, S3014: 1, S0027: 1, L0741: 1, L0745: 1, L0608: 1, L0593: 1, L0601: 1, L0603: 1, H0668: 1, S0026: 1, H0136: 1, S0192: 1 and H0506: 1. L0748: 13, L0758: 5, L0749: 4, L0439: 3, H0441: 2, H0052: 2, H0090: 2, L0774: 2, L0775: 2, L0517: 2, L0666: 2, L0740: 2, L0731: 2, L0759: 2, S0134: 1, L0415: 1, H0318: 1, H0327: 1, H0563: 1, S0050: 1, H0594: 1, H0266: 1, H0252: 1, H0644: 1, H0135: 1, H0616: 1, H0264: 1, S0438: 1, L0369: 1, L0763: 1,		
---------	---------	-----	---------	------	--	--	--	--

HHEBJ92	1051903	771	67 - 2094	2946		L0796: 1, L0662: 1, L0804: 1, L0375: 1, L0787: 1, S0428: 1, H0593: 1, H0689: 1, H0436: 1, L0743: 1, L0754: 1 and L0603: 1. AR089: 8, AR053: 6, AR060: 6, AR096: 5, AR039: 5, AR055: 4, AR104: 4, AR033: 4, AR061: 2, AR052: 0 H0717: 14, H0703: 14, H0699: 9, H0716: 8, H0685: 7, H0730: 7, H0688: 6, H0729: 5, H0687: 5, H0622: 4, H0424: 4, H0684: 4, H0670: 4, S0356: 3, S0376: 3, H0728: 3, L0163: 3, H0615: 3, H0039: 3, H0494: 3, H0724: 3, H0689: 3, H0683: 3, H0709: 3, H0694: 3, L0751: 3, H0624: 2, H0171: 2, H0686: 2, H0713: 2, H0663: 2, S0358: 2, H0722: 2, H0036: 2, H0100: 2, H0695: 2, H0725: 2, H0723: 2,	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975
---------	---------	-----	-----------	------	--	--	------	--

	H0691: 2, H0521: 2, S0028: 2, L0744: 2, L0758: 2, S0031: 2, H0542: 2, H0664: 1, H0662: 1, S0354: 1, H0580: 1, S0132: 1, H0619: 1, H0261: 1, S6016: 1, S0222: 1, H0455: 1, H0333: 1, H0486: 1, H0194: 1, H0263: 1, H0597: 1, H0545: 1, H0046: 1, H0009: 1, H0050: 1, H0012: 1, H0051: 1, T0006: 1, H0213: 1, L0456: 1, H0038: 1, H0616: 1, H0551: 1, H0059: 1, S0038: 1, H0561: 1, L0761: 1, L0374: 1, L0771: 1, L0766: 1, L0776: 1, L0527: 1, L0666: 1, L0665: 1, S0052: 1, H0697: 1, H0698: 1, S0374: 1, H0726: 1, H0520: 1, H0690: 1, H0435: 1, H0660: 1, H0666: 1, H0539: 1, S0390: 1, S0206: 1, L0743: 1, L0748: 1,					
--	--	--	--	--	--	--

								L0740: 1, L0754: 1, L0779: 1, L0777: 1, L0731: 1, S0394: 1, S0460: 1 and H0677: 1.			
HPTGB84	1051953	772	793 - 200	2947	Phe-59 to Glu-68, Lys-105 to Gly-111.			H0660: 3, S0358: 2, L0755: 2, L0759: 2, H0624: 1, S0040: 1, S0342: 1, H0484: 1, H0638: 1, H0550: 1, H0486: 1, H0427: 1, H0706: 1, S0010: 1, S0182: 1, H0012: 1, H0405: 1, H0673: 1, H0488: 1, H0059: 1, T0042: 1, H0494: 1, S0150: 1, H0647: 1, S0144: 1, L0772: 1, L0766: 1, H0520: 1, H0547: 1, H0435: 1, H0214: 1, S3012: 1, L0750: 1, L0777: 1, L0758: 1, H0445: 1, L0601: 1 and S0276: 1.			
HVCCD05	1051983	773	3 - 968	2948				H0666: 440, H0660: 3, H0309: 1, L0471: 1, H0328: 1, H0383: 1, L0769: 1, L0789: 1 and S0152: 1.	17q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954,	

HPYSC40	1052158	774	2 - 583	2949	Ile-1 to Pro-10, Pro-36 to Glu-43, Arg-92 to Cys-98, Glu-106 to Lys-115, Pro-174 to Leu-179.	L0751: 11, L0777: 9, L0809: 6, H0100: 4, H0112: 3, L0783: 3, L0747: 3, H0644: 2, H0670: 2, L0755: 2, S0040: 1, H0013: 1, H0031: 1, L0794: 1, H0144: 1 and L0759: 1.	9q34	602403 125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
HDDMT56	1052261	775	155 - 844	2950	Pro-8 to Asp-23, Leu-27 to Ser-38, Thr-40 to Arg-69, Arg-73 to Asp-97, Asp-108 to Asp- 126, Glu-135 to Ile-159, Pro-176 to Ala-181, Lys-184 to Asp-192, Val-202 to Arg-210, Thr-215 to His-221.	H0641: 1, L0775: 1 and H0659: 1.		
HVVAW02	1052553	776	2 - 652	2951	Ala-1 to Ala-8, Pro-26 to Tyr-32, Gly-48 to Pro-53, Asp-132 to Gly-137, Val-139 to Leu-144, Lys-165 to Gly-171, Ser-191 to Ala-198.	S0358: 6, L0748: 5, L0777: 5, H0171: 4, H0341: 4, S0408: 4, H0597: 4, H0620: 4, L0754: 4, L0749: 4, S0360: 3, H0596: 3, H0545: 3, H0494: 3, S0210: 3, L0769: 3, S0374: 3, H0659: 3,	7q21.1	129900, 154276, 171050, 171060, 602136, 602136, 602136, 602447

	S0040: 2, H0657: 2, H0661: 2, S0376: 2, S0007: 2, S0045: 2, S0046: 2, S0222: 2, H0431: 2, H0013: 2, H0530: 2, H0014: 2, H0266: 2, H0328: 2, H0644: 2, H0100: 2, L0771: 2, L0662: 2, L0803: 2, L0438: 2, H0547: 2, S0126: 2, S0330: 2, L0743: 2, L0439: 2, L0751: 2, H0445: 2, S0026: 2, S0276: 2, S0196: 2, H0265: 1, T0049: 1, S0218: 1, H0656: 1, H0638: 1, S0356: 1, S0444: 1, S0410: 1, H0580: 1, S0132: 1, H0393: 1, S0300: 1, H0586: 1, L0622: 1, H0486: 1, T0109: 1, S0280: 1, H0599: 1, S0010: 1, S0049: 1, H0204: 1, H0327: 1, H0123: 1, H0051: 1, H0275: 1, H0083: 1, H0629: 1, H0271: 1, H0188: 1, H0290: 1,					
--	--	--	--	--	--	--

	S0003: 1, T0006: 1, H0031: 1, H0628: 1, H0673: 1, H0068: 1, H0598: 1, H0163: 1, H0090: 1, H0040: 1, H0551: 1, H0412: 1, L0370: 1, H0641: 1, H0647: 1, L0520: 1, L0762: 1, L0770: 1, L0667: 1, L0764: 1, L0521: 1, L0794: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0376: 1, L0806: 1, L0653: 1, L0776: 1, L0659: 1, L0540: 1, L0384: 1, L0383: 1, L0792: 1, H0520: 1, H0519: 1, H0689: 1, H0682: 1, H0666: 1, H0648: 1, H0672: 1, S0380: 1, H0518: 1, H0521: 1, H0522: 1, S0404: 1, S0406: 1, H0187: 1, L0612: 1, L0750: 1, L0731: 1, L0759: 1, L0588: 1, L0366: 1, H0136: 1, S0192: 1, S0194: 1, H0543: 1 and H0422: 1.					
--	---	--	--	--	--	--

HOGCS42	1052557	777	223 - 852	2952	Gly-156 to Met-161, Cys-186 to Lys-197.	AR039: 7, AR052: 6, AR089: 5, AR033: 4, AR104: 3, AR053: 3, AR096: 3, AR055: 3, AR061: 3, AR060: 2 S0358: 15, H0622: 15, S0354: 14, S0360: 11, H0435: 11, S0356: 9, H0039: 9, L0666: 9, L0751: 9, H0553: 8, H0506: 8, H0689: 7, L0748: 7, H0661: 6, L0659: 6, L0665: 6, S0376: 5, L0743: 5, H0484: 4, H0483: 4, H0059: 4, L0764: 4, L0771: 4, L0662: 4, L0809: 4, S0330: 4, H0615: 3, H0688: 3, H0040: 3, L0763: 3, L0364: 3, L0774: 3, L0663: 3, H0683: 3, H0670: 3, H0672: 3, L0750: 3, L0731: 3, H0663: 2, H0549: 2, H0046: 2, H0014: 2, H0124: 2, H0494: 2, S0450: 2, L0374: 2, L0765: 2, L0804: 2, L0378: 2, L0653: 2,		
---------	---------	-----	-----------	------	--	--	--	--

			L0529: 2, H0593: 2, H0658: 2, S0152: 2, L0439: 2, L0779: 2, L0601: 2, H0294: 1, S0430: 1, H0675: 1, H0676: 1, H0370: 1, H0587: 1, H0642: 1, T0109: 1, H0204: 1, L0040: 1, L0738: 1, H0620: 1, H0024: 1, H0356: 1, H0375: 1, L0194: 1, T0023: 1, L0483: 1, H0033: 1, H0424: 1, H0644: 1, H0264: 1, H0488: 1, H0413: 1, H0334: 1, S0352: 1, S0306: 1, S0440: 1, H0647: 1, H0646: 1, H0652: 1, L0373: 1, L0646: 1, L0648: 1, L0803: 1, L0375: 1, L0376: 1, L0806: 1, L0658: 1, L0382: 1, L0528: 1, L0664: 1, S0374: 1, H0690: 1, H0682: 1, H0648: 1, S0328: 1, H0478: 1, S0432: 1, L0744: 1, L0754: 1, L0747: 1, L0749: 1,					
--	--	--	--	--	--	--	--	--

HAZAA59	1052593	778	29 - 745	2953	L0755: 1, L0759: 1, L0596: 1, H0543: 1, S0462: 1 and H0352: 1. S0358: 4, L0752: 4, H0012: 3, H0266: 3, L0740: 3, L0731: 3, H0615: 2, L0772: 2, L0776: 2, L0565: 2, L0605: 2, L0608: 2, L0362: 2, H0423: 2, H0556: 1, S0114: 1, S0134: 1, H0341: 1, H0255: 1, H0664: 1, H0638: 1, S0356: 1, H0676: 1, H0441: 1, H0392: 1, H0613: 1, H0333: 1, H0632: 1, L0021: 1, S0049: 1, H0251: 1, H0327: 1, H0572: 1, L0471: 1, H0271: 1, H0252: 1, T0023: 1, H0135: 1, H0591: 1, H0560: 1, S0150: 1, L0637: 1, L3904: 1, L0764: 1, L0364: 1, L0803: 1, L0661: 1, L0647: 1, L0790: 1, L0663: 1, H0144: 1, S0374: 1, H0547: 1, H0690: 1,	
---------	---------	-----	----------	------	---	--

								H0670: 1, H0672: 1, H0539: 1, S0406: 1, H0555: 1, L0356: 1, L0742: 1, L0748: 1, L0746: 1, L0779: 1, L0758: 1, H0445: 1 and S0026: 1.			
HPDRP02	1052728	779	248 - 670	2954		Pro-12 to Asp-20, Leu-30 to Glu-37, Lys-62 to Asp-70, Met-99 to Asp-109, Ala-115 to Asn-122, Gly-135 to Asp-141.		H0619: 3, H0662: 2, H0135: 1, H0593: 1 and H0658: 1.			
HMALJ21	1052874	780	623 - 1033	2955		Gly-9 to Thr-24.		L0789: 4, H0660: 2, S0278: 1, H0250: 1, T0010: 1, H0163: 1, H0551: 1, L0657: 1, L0777: 1, L0755: 1 and L0731: 1.			
HLRAR61	1053037	781	120 - 431	2956		Gln-17 to Gly-27, Glu-39 to Asp-52, Lys-79 to Asn-84.		H0341: 3, H0580: 2, S0049: 2, S0422: 2, T0049: 1, H0656: 1, S0222: 1, H0632: 1, H0486: 1, H0581: 1, H0266: 1, H0494: 1, S0438: 1, H0520: 1, H0659: 1, H0704: 1, S0406: 1, L0754: 1, L0747: 1, L0750: 1, L0752: 1, L0757: 1,			

HLTCQ80	1053164	782	2 - 562	2957		H0445: 1 and S0276: 1, H0616: 5, L0758: 4, L0362: 4, H0529: 3, L0803: 3, L0809: 3, H0592: 2, L0804: 2, L0527: 2, L0665: 2, H0547: 2, L0439: 2, L0754: 2, L0777: 2, L0485: 2, S0114: 1, H0657: 1, H0341: 1, S0420: 1, S0442: 1, S0358: 1, S0376: 1, H0675: 1, H0580: 1, H0632: 1, S0414: 1, H0013: 1, H0706: 1, H0327: 1, H0123: 1, H0428: 1, H0622: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, S0450: 1, S0438: 1, H0647: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0764: 1, L0794: 1, L0776: 1, L0659: 1, L0526: 1, L0783: 1, L0666: 1, L0663: 1, L0438: 1, H0690: 1, H0659: 1, H0670: 1, H0672: 1, H0710: 1, H0436: 1,	8q24	131950, 153840, 600669, 601282, 601455, 602232
---------	---------	-----	---------	------	--	---	------	---

							S0028: 1, L0779: 1 and L0731: 1.		
HDTDU67	1053171	783	485 - 697	2958	Ser-9 to Gln-19.		L0362: 6, H0486: 3, S0406: 3, L0809: 2, S0434: 2, H0624: 1, H0663: 1, S0376: 1, S0360: 1, H0329: 1, S0046: 1, H0586: 1, H0150: 1, L0483: 1, H0096: 1, H0124: 1, H0591: 1, S0422: 1, L0598: 1, L0369: 1, L0763: 1, L0638: 1, L0521: 1, L0662: 1, L0766: 1, L0803: 1, L0776: 1, L0655: 1, L0657: 1, L0659: 1, L0793: 1, L0666: 1, L0665: 1, L0565: 1, H0520: 1, H0519: 1, H0684: 1, H0648: 1, H0521: 1, H0696: 1, L0747: 1, L0779: 1, L0777: 1, L0752: 1, L0758: 1, L0608: 1, H0506: 1 and H0352: 1.		
HMABL01	1053173	784	210 - 1289	2959	Ala-1 to Arg-6, Gly-45 to Gly-51, Ser-53 to Lys-69, Asp-89 to Ser-100.		L0493: 10, L0748: 6, L0601: 5, H0615: 4, L0741: 4, H0052: 3, L0774: 3, L0776: 3,		

						Pro-106 to Leu-117, L0754: 3, L0749: 3, His-119 to Gly-124, S0222: 2, H0318: 2, Asp-166 to Ser-176, H0620: 2, S0422: 2, Ser-293 to Cys-301, L0500: 2, L0769: 2, Pro-306 to Cys-313, L0766: 2, L0375: 2, Ser-317 to Gln-327, L0514: 2, L0793: 2, Arg-332 to Pro-341, S0126: 2, S6024: 1, H0484: 1, H0125: 1, H0393: 1, H0586: 1, H0497: 1, H0331: 1, H0574: 1, L0622: 1, H0013: 1, T0082: 1, S0010: 1, L0563: 1, H0597: 1, L0471: 1, H0012: 1, H0356: 1, H0328: 1, H0428: 1, H0039: 1, T0006: 1, H0424: 1, T0067: 1, H0487: 1, H0059: 1, S0144: 1, S0426: 1, L0770: 1, L5575: 1, L0768: 1, L0794: 1, L0499: 1, L0497: 1, L0806: 1, L0805: 1, L0783: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0658: 1,					
--	--	--	--	--	--	---	--	--	--	--	--

HACMU05	1053236	785	1717 - 2631	2960	His-10 to Ala-18, Lys-77 to Glu-86, Gln-137 to Trp-143, Gln-256 to Asp-263, Glu-276 to Arg-285.	S0032: 1, L0740: 1, L0755: 1, L0758: 1, H0444: 1, L0596: 1 and S0192: 1.	17q25	114290, 138033, 162100, 170500, 170500, 170500, 180860, 264470
---------	---------	-----	----------------	------	---	---	-------	---

								L0761: 1, L0667: 1, L0644: 1, L0768: 1, L0659: 1, L0809: 1, L0790: 1, L0666: 1, L0663: 1, H0703: 1, S0374: 1, H0689: 1, H0684: 1, S0332: 1, H0555: 1, L0609: 1, L0749: 1, L0779: 1 and H0136: 1.			
HOVDF79	1053369	786	3 - 587	2961	Ala-8 to Gly-15, Gln-44 to Asn-52, Gly-62 to Ser-68.			H0615: 1, H0428: 1, L0638: 1, L0764: 1, L0659: 1, L0438: 1, L0352: 1, H0648: 1, L0439: 1 and L0731: 1.			
HVVBJ54	1053547	787	2 - 610	2962				H0135: 13, H0052: 9, H0539: 8, H0521: 8, H0013: 7, L0769: 7, L0666: 7, L0750: 7, L0599: 7, S0007: 6, H0619: 6, H0333: 6, H0486: 6, S0010: 6, H0012: 6, L0766: 6, H0144: 6, H0593: 6, L0745: 6, H0656: 5, H0197: 5, H0024: 5, H0428: 5, H0100: 5, L0520: 5, L0776: 5, L0655: 5, L0517: 5, L0663: 5, H0670: 5,	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477	

H0522: 5, S0044: 5, L0744: 5, L0747: 5, L0779: 5, H0423: 5, S0360: 4, L0665: 4, H0547: 4, H0519: 4, S0126: 4, H0555: 4, H0436: 4, S0028: 4, L0439: 4, L0740: 4, L0758: 4, H0445: 4, H0255: 3, H0069: 3, H0618: 3, H0581: 3, H0457: 3, H0150: 3, H0050: 3, H0687: 3, H0622: 3, H0424: 3, H0617: 3, H0087: 3, T0067: 3, L0662: 3, L0649: 3, L0774: 3, L0659: 3, L0530: 3, S0374: 3, L0438: 3, H0672: 3, S0380: 3, L0751: 3, L0759: 3, L0596: 3, L0589: 3, H0506: 3, S0040: 2, S0114: 2, T0049: 2, H0583: 2, H0657: 2, S0116: 2, S0212: 2, H0662: 2, H0402: 2, S0356: 2, S0045: 2, S0046: 2, H0369: 2, S0222: 2, H0586: 2,
--

H0587: 2, H0575: 2, S0346: 2, H0123: 2, L0471: 2, H0620: 2, H0199: 2, H0373: 2, H0356: 2, H0099: 2, H0271: 2, S0250: 2, H0688: 2, T0006: 2, H0181: 2, L0455: 2, S0366: 2, H0634: 2, H0561: 2, H0641: 2, S0142: 2, S0210: 2, H0529: 2, L0637: 2, L0761: 2, L0646: 2, L0803: 2, L0775: 2, L0636: 2, L0526: 2, L0518: 2, L0809: 2, L0789: 2, S0053: 2, H0693: 2, H0520: 2, H0658: 2, H0651: 2, H0710: 2, S0406: 2, H0478: 2, L0611: 2, S0027: 2, L0741: 2, L0754: 2, L0749: 2, L0756: 2, L0777: 2, L0731: 2, S0434: 2, L0597: 2, L0592: 2, L0581: 2, L0593: 2, L0595: 2, L0361: 2, L0601: 2, L0603: 2, S0026: 2, S0194: 2,
--

	H0543: 2, H0265: 1, H0556: 1, H0686: 1, S0218: 1, S0282: 1, H0254: 1, H0663: 1, H0306: 1, H0638: 1, S0418: 1, S0354: 1, S0358: 1, S0376: 1, S0408: 1, H0637: 1, L0476: 1, H0393: 1, H0437: 1, H0550: 1, S6016: 1, H0392: 1, H0455: 1, H0249: 1, H0600: 1, T0040: 1, T0060: 1, H0635: 1, H0427: 1, H0599: 1, H0706: 1, H0036: 1, H0253: 1, T0048: 1, H0318: 1, S0474: 1, S0049: 1, H0309: 1, H0046: 1, H0569: 1, H0081: 1, H0154: 1, S0051: 1, H0083: 1, S6028: 1, H0238: 1, H0188: 1, S0318: 1, H0288: 1, S0022: 1, H0328: 1, H0039: 1, L0483: 1, H0031: 1, H0553: 1, H0644: 1, H0628: 1, L0055: 1, H0674: 1, L0456: 1,					
--	--	--	--	--	--	--

					H0708: 1, S0036: 1, H0040: 1, H0551: 1, H0379: 1, H0477: 1, H0264: 1, H0488: 1, H0059: 1, S0038: 1, L0351: 1, H0429: 1, H0494: 1, H0625: 1, S0464: 1, H0132: 1, H0647: 1, H0646: 1, L0598: 1, L0369: 1, L0640: 1, L0763: 1, L0501: 1, L0372: 1, L0773: 1, L0768: 1, L0661: 1, L0558: 1, L0540: 1, L0547: 1, L0783: 1, L0384: 1, L0541: 1, L0647: 1, L0532: 1, L0664: 1, S0052: 1, S0428: 1, H0697: 1, H0689: 1, H0682: 1, H0683: 1, H0648: 1, S0330: 1, H0518: 1, H0696: 1, S0190: 1, H0694: 1, S0404: 1, H0576: 1, S0390: 1, L0748: 1, L0752: 1, L0753: 1, L0485: 1, L0608: 1, H0665: 1, H0422: 1, S0424: 1, L0600: 1 and
--	--	--	--	--	---

						H0352: 1.			
HOFMU50	1053548	788	356 - 547	2963	Gln-36 to Leu-47, Glu-55 to Asn-64.	H0415: 2, H0583: 1, H0123: 1, H0623: 1, H0518: 1 and L0779: 1.			
HE9MO38	1053585	789	2 - 268	2964	Pro-26 to Ala-33, Gly-68 to Gln-75.	H0254: 1, S0278: 1, L0764: 1, H0144: 1, S0424: 1 and H0506: 1.			
HOPJF55	1053725	790	3 - 698	2965	Glu-1 to Gly-11, Gln-83 to Asp-98, Glu-101 to Gln-110, Gln-112 to Gln-120, Thr-128 to Asn-133, Glu-135 to Gly-142, Asp-145 to Cys-153, His-160 to Cys-166.	L0747: 10, L0771: 8, H0333: 7, H0620: 6, H0545: 5, H0024: 5, H0551: 5, L0659: 5, L0665: 5, H0012: 4, L0769: 4, L0375: 4, S0126: 4, L0740: 4, L0754: 4, L0755: 4, L0759: 4, H0294: 3, S0045: 3, H0550: 3, L0471: 3, L0794: 3, H0689: 3, H0682: 3, L0749: 3, H0624: 2, H0171: 2, H0251: 2, H0081: 2, H0050: 2, H0252: 2, H0428: 2, H0124: 2, H0068: 2, L0637: 2, L0368: 2, L0792: 2, L0565: 2, L0779: 2, L0777: 2, L0757: 2, H0352: 2, H0170: 1, H0685: 1, S0356: 1, S0376: 1.	1p36.1-p35	116600, 118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 185470, 230350, 255800, 600975, 602771	

						S0360: 1, S0046: 1, H0645: 1, H0549: 1, H0592: 1, H0586: 1, H0013: 1, L0021: 1, T0082: 1, H0544: 1, H0546: 1, H0041: 1, H0570: 1, H0123: 1, H0594: 1, H0328: 1, H0615: 1, H0553: 1, H0413: 1, H0100: 1, S0002: 1, L0762: 1, L0761: 1, L0772: 1, L0646: 1, L0764: 1, L0662: 1, L0767: 1, L0364: 1, L0806: 1, L0805: 1, L0629: 1, L0809: 1, L0789: 1, H0144: 1, H0684: 1, H0659: 1, S0330: 1, S0190: 1, S0037: 1, S3014: 1, S0028: 1, L0744: 1, L0780: 1, L0758: 1, H0343: 1 and H0008: 1.					
HAOTD13	1053746	791	2 - 808	2966		L0748: 22, L0751: 11, L0754: 11, L0740: 9, L0758: 9, H0659: 7, L0362: 6, H0052: 5, S0003: 5, L0769: 5, H0651: 5, L0747: 4,					

H0265: 3, H0657: 3, H0402: 3, S0358: 3, S0360: 3, H0150: 3, H0012: 3, H0413: 3, S0344: 3, H0529: 3, L0770: 3, L0766: 3, L0752: 3, H0686: 2, S0420: 2, S0046: 2, H0441: 2, L0622: 2, H0013: 2, H0327: 2, H0545: 2, H0606: 2, L0455: 2, H0100: 2, T0041: 2, H0509: 2, S0422: 2, L0774: 2, L0805: 2, L0659: 2, H0691: 2, H0690: 2, H0672: 2, H0521: 2, S0044: 2, S3014: 2, S0206: 2, S0032: 2, L0749: 2, L0755: 2, L0581: 2, L0594: 2, H0667: 2, S0446: 2, H0352: 2, H0170: 1, H0556: 1, S0040: 1, T0049: 1, H0583: 1, H0483: 1, H0661: 1, S0418: 1, S0045: 1, S0132: 1, H0351: 1, H0333: 1, H0486: 1, H0101: 1, T0082: 1,
--

	H0253: 1, S0010: 1, H0318: 1, H0581: 1, H0009: 1, H0123: 1, L0471: 1, H0014: 1, H0188: 1, H0328: 1, H0428: 1, T0023: 1, H0031: 1, H0553: 1, H0644: 1, H0313: 1, H0181: 1, H0617: 1, L0055: 1, H0673: 1, H0361: 1, H0087: 1, T0067: 1, H0433: 1, H0412: 1, H0494: 1, S0448: 1, S0210: 1, L0763: 1, L0371: 1, L0639: 1, L0637: 1, L0761: 1, L0772: 1, L0372: 1, L0645: 1, L0764: 1, L0771: 1, L0521: 1, L0662: 1, L0387: 1, L0650: 1, L0375: 1, L0806: 1, L0776: 1, L0655: 1, L0657: 1, L0783: 1, L0809: 1, L0529: 1, L0666: 1, L0664: 1, L0665: 1, H0689: 1, H0435: 1, H0670: 1, H0648: 1, H0539: 1, H0187: 1, S0028: 1,					
--	--	--	--	--	--	--

							L0743: 1, L0750: 1, L0757: 1, L0759: 1, H0445: 1, S0242: 1, S0196: 1, L0698: 1, UNKWN: 1 and L0600: 1.			
HODCJ32	1053772	792	643 - 149	2967		Tyr-1 to Glu-8, Pro-51 to Thr-67, Val-85 to Ser-90, Pro-118 to Gly-128.	L0776: 4, L0756: 4, L0777: 4, L0749: 2, H0052: 1, H0565: 1, H0328: 1, L0770: 1, L0769: 1, L0761: 1, L0805: 1, L0659: 1, L0809: 1, L0787: 1, L0666: 1, L0665: 1, L0439: 1, L0751: 1, L0745: 1, L0747: 1, L0779: 1 and L0758: 1.			
HOCPT34	1053973	793	1 - 2355	2968		Ser-19 to Gly-26, Glu-46 to Gln-52, Pro-61 to Ser-66, Arg-71 to Leu-85, Tyr-99 to Tyr-105, Pro-107 to Gly-115, Leu-137 to Leu-147, Glu-175 to Leu-181, Ala-187 to Ser-196, Ile-200 to Trp-209, Ser-353 to Lys-367, Gly-388 to Ser-397, Thr-415 to Val-423,	L0438: 5, L0749: 4, H0266: 3, H0038: 3, L0803: 3, L0666: 3, L0777: 3, L0763: 2, H0547: 2, L0748: 2, L0759: 2, S0031: 2, L0591: 2, S0358: 1, S0376: 1, S0007: 1, S0045: 1, S0132: 1, S0222: 1, H0013: 1, S0010: 1, H0390: 1, H0052: 1, H0596: 1, H0046: 1, H0564: 1,	2q23-q31	100690, 120180, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321	

HFKHC64	1054015	794	1928 - 363	2969	Gly-6 to His-16, Arg-20 to Gly-41, Arg-115 to Asn-121, Phe-136 to Glu-144, Lys-152 to Glu-162, Glu-176 to Thr-182, Pro-205 to Gln-212, Lys-229 to Ala-235, Gly-310 to Trp-315, Val-328 to Thr-342.	Glu-459 to Cys-469, Gly-471 to Pro-481.	N0007: 1, H0201: 1, H0616: 1, H0551: 1, T0042: 1, H0561: 1, H0131: 1, H0529: 1, L0761: 1, L0641: 1, L0774: 1, L0776: 1, L0659: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, S0126: 1, H0660: 1, H0539: 1, H0579: 1, L0743: 1, L0439: 1, L0745: 1, L0747: 1, L0750: 1, S0260: 1 and L0366: 1.	19q13.2- q13.4	107741, 113900, 122720, 122720, 126340, 126391, 134790, 160900, 164731, 173850, 191044, 207750, 248600, 258501, 600040, 600138
---------	---------	-----	------------	------	---	--	---	-------------------	---

HOPKO37	1054085	795	2117 - 1056	2970	Arg-22 to Met-33, Ile-38 to Ala-49, Val-64 to Pro-85	L0603: 2, H0295: 1, S0212: 1, H0638: 1, S0356: 1, S0376: 1, S0360: 1, H0370: 1, H0587: 1, H0333: 1, H0486: 1, H0427: 1, H0156: 1, L0021: 1, H0618: 1, H0253: 1, H0052: 1, H0563: 1, H0023: 1, H0266: 1, S0022: 1, H0039: 1, T0006: 1, H0424: 1, H0135: 1, H0264: 1, H0623: 1, H0509: 1, H0647: 1, L0520: 1, L0375: 1, L0654: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0663: 1, S0374: 1, H0593: 1, S0126: 1, H0690: 1, S0328: 1, S0152: 1, S0146: 1, H0555: 1, L0779: 1, L0752: 1, L0731: 1, L0759: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and S0042: 1.		
						H0124: 6, L0769: 3, L0768: 3, L0794: 3, L0522: 3, L0666: 3.	5	

					Pro-105 to Ala-123.	S0420: 2, H0599: 2, H0620: 2, H0617: 2, H0412: 2, H0100: 2, H0646: 2, H0520: 2, H0684: 2, L0588: 2, L0778: 1, H0484: 1, H0661: 1, S0360: 1, H0586: 1, H0427: 1, H0253: 1, H0581: 1, H0546: 1, H0009: 1, N0006: 1, H0172: 1, H0012: 1, H0188: 1, H0181: 1, H0606: 1, H0040: 1, H0059: 1, H0561: 1, S0002: 1, L0503: 1, L0640: 1, L0803: 1, L0652: 1, L0654: 1, L0790: 1, L0664: 1, L0565: 1, H0682: 1, H0658: 1, H0670: 1, H0660: 1, H0539: 1, L0744: 1, L0439: 1, L0754: 1, L0747: 1, L0750: 1, L0777: 1, L0731: 1, S0260: 1, L0593: 1, H0506: 1 and H0352: 1.			
HNBVO53	1054122	796	2 - 2332	2971	His-4 to Tyr-10, Ile-58 to Leu-63, Pro-65 to Val-74,	L0794: 5, H0542: 5, S0358: 3, H0013: 2, H0618: 2, H0617: 2,			

					Leu-122 to Ser-132, Gln-134 to Leu-144, Pro-155 to Ser-166.	L0769: 2, L0764: 2, L0662: 2, L0803: 2, H0670: 2, L0756: 2, L0595: 2, L0361: 2, H0556: 1, S0040: 1, L0785: 1, H0341: 1, H0661: 1, H0662: 1, H0402: 1, S0420: 1, H0370: 1, T0040: 1, T0114: 1, H0253: 1, H0581: 1, H0041: 1, H0687: 1, H0604: 1, H0213: 1, H0644: 1, H0181: 1, H0087: 1, H0412: 1, H0413: 1, H0100: 1, S0382: 1, H0509: 1, S0210: 1, L0763: 1, L0761: 1, L0372: 1, L0641: 1, L0649: 1, L0386: 1, L0809: 1, L0789: 1, L0663: 1, H0693: 1, H0658: 1, H0672: 1, H0539: 1, S0027: 1, L0757: 1, L0758: 1, L0604: 1, H0543: 1, H0506: 1 and H0352: 1.		
HOPKF84	1054155	797	395 - 1168	2972	Ser-11 to Cys-17, Glu-39 to Tyr-49, Glu-98 to Glu-104,	L0766: 5, L0804: 3, L0105: 2, L0803: 2, L0788: 2, H0659: 2,		

						Gly-122 to Ser-128, Tyr-154 to Val-163, Glu-170 to Thr-195, Leu-213 to Gly-218, Lys-229 to Phe-236, Ser-241 to Ser-248.	L0759: 2, H0624: 1, H0657: 1, H0661: 1, H0601: 1, H0266: 1, H0687: 1, H0032: 1, H0413: 1, S0450: 1, H0509: 1, L0763: 1, L0638: 1, L0761: 1, L0662: 1, L0650: 1, L0805: 1, L0659: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0684: 1, L0745: 1, L0747: 1, L0750: 1, L0731: 1, L0758: 1, H0595: 1, S0026: 1, H0543: 1, S0424: 1 and S0456: 1.			
HCQDQ11	1054196	798	109 - 174	2973			H0594: 11, H0596: 8, S0282: 5, S0260: 5, S0194: 5, H0543: 5, S0278: 2, H0600: 2, H0592: 2, H0598: 2, S0344: 2, H0595: 2, S0356: 1, H0438: 1, H0574: 1, H0599: 1, S0346: 1, H0318: 1, H0597: 1, S0388: 1, H0316: 1, S0390: 1 and H0542: 1.	17p13.3	113721, 247200, 600059, 601545	
HTFML39	1054230	799	1 - 873	2974	Ala-23 to Gly-49,		H0124: 2, H0618: 1,			

					Ser-106 to Pro-115, Gly-160 to Lys-167, Thr-183 to Gly-189, Glu-196 to Gly-211, Ala-218 to Gly-224, Val-257 to Leu-269.	H0123: 1, H0012: 1, H0083: 1, H0428: 1, H0593: 1, L0740: 1 and S0424: 1.		
HOGCR32	1054235	800	3 - 137	2975	Pro-3 to Lys-13, Thr-39 to Ile-45.	H0435: 2		
HFCDL60	1054288	801	1158 - 241	2976	Glu-2 to Thr-7, Arg-64 to Lys-72, Glu-77 to Leu-83, Arg-93 to Ser-102, Ile-118 to Gln-123, Ser-152 to Gly-158, Gln-276 to Ser-282.	AR089: 7, AR104: 6, AR096: 6, AR053: 4, AR039: 4, AR060: 3, AR033: 1, AR061: 1, AR055: 0 L0777: 9, H0556: 8, H0620: 7, L0766: 7, H0521: 7, L0747: 6, S0360: 5, H0250: 5, L0751: 5, L0794: 4, L0754: 4, L0591: 4, S0354: 3, S0358: 3, S0278: 3, H0553: 3, S0144: 3, L0769: 3, L0773: 3, H0547: 3, S0404: 3, S3014: 3, L0743: 3, L0744: 3, L0439: 3, L0752: 3, L0731: 3, H0445: 3, S0218: 2, H0580: 2, S0132: 2, H0393: 2, H0550: 2, S0222: 2,	15q23-q25	118485, 151670, 231680, 272800, 272800, 272800, 276700, 600374, 601780

792

				S0280: 1, H0156: 1, H0706: 1, H0318: 1, H0310: 1, H0231: 1, H0545: 1, H0009: 1, H0565: 1, H0123: 1, H0012: 1, H0047: 1, H0197: 1, H0024: 1, H0057: 1, T0010: 1, H0267: 1, H0252: 1, H0688: 1, H0617: 1, S0364: 1, H0124: 1, S0036: 1, H0040: 1, H0488: 1, H0412: 1, H0059: 1, H0100: 1, H0494: 1, H0560: 1, S0448: 1, S0440: 1, H0131: 1, H0130: 1, H0633: 1, H0647: 1, S0344: 1, L0770: 1, L0643: 1, L0645: 1, L0764: 1, L0521: 1, L0364: 1, L0381: 1, L0774: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0659: 1, L0809: 1, L0663: 1, L0664: 1, H0699: 1, S0374: 1, H0435: 1, H0648: 1, S0152: 1, S0044: 1, H0134: 1,				
--	--	--	--	--	--	--	--	--

							S0406: 1, S0032: 1, L0749: 1, L0756: 1, L0779: 1, L0759: 1, S0260: 1, H0665: 1, H0136: 1, H0423: 1, S0424: 1 and H0506: 1.			
HODEC13	1054400	802	1599 - 880	2977			H0208: 2, H0615: 2, S0001: 1, H0351: 1, H0545: 1, H0081: 1, H0424: 1 and H0334: 1.			
HUSYA18	1054451	803	689 - 138	2978			L0749: 15, L0748: 9, L0758: 9, L0766: 8, L0770: 7, H0266: 6, L0775: 6, L0655: 6, L0731: 6, L0362: 6, S0444: 5, L0764: 5, L0809: 5, S0358: 4, H0637: 4, L0777: 4, L0752: 4, H0305: 3, S0440: 3, L0646: 3, L0773: 3, S0406: 3, L0439: 3, L0740: 3, L0754: 3, L0755: 3, L0759: 3, H0341: 2, S0420: 2, S0356: 2, S0360: 2, S6028: 2, H0551: 2, S0438: 2, L0761: 2, L0373: 2, L0800: 2, L0768: 2, L0774: 2, L0666: 2,	13q12.3- q13.1	157900, 600185, 600185, 600631	

	L0665: 2, S0378: 2, S0380: 2, L0750: 2, L0592: 2, H0423: 2, H0624: 1, H0685: 1, H0664: 1, S0418: 1, S0476: 1, H0393: 1, H0351: 1, S0222: 1, H0574: 1, L0623: 1, H0486: 1, H0156: 1, T0082: 1, H0036: 1, S0010: 1, H0318: 1, H0309: 1, H0569: 1, S0003: 1, L0055: 1, H0673: 1, S0036: 1, H0412: 1, H0413: 1, S0038: 1, L0351: 1, T0041: 1, H0494: 1, H0714: 1, L0369: 1, L0520: 1, L0763: 1, L0769: 1, L0772: 1, L0372: 1, L0645: 1, L0521: 1, L0767: 1, L0364: 1, L0794: 1, L0649: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0653: 1, L4669: 1, L0659: 1, L0792: 1, L5286: 1, L0663: 1, L0664: 1, S0374: 1, H0689: 1,	
--	--	--

HOCON42	1054527	804	2000 - 1755	2979	Glu-16 to Gly-33, Lys-63 to Lys-71, Asp-77 to Pro-82.	H0682: 1, H0684: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, H0710: 1, H0521: 1, S0013: 1, H0696: 1, H0436: 1, S0028: 1, L0747: 1, L0786: 1, S0436: 1, L0591: 1, L0599: 1, S0026: 1, H0543: 1, H0422: 1 and S0424: 1.		
						S0250: 5, L0764: 4, H0457: 3, L0789: 3, H0543: 3, H0650: 2, L0717: 2, H0594: 2, H0622: 2, L0769: 2, L0800: 2, L0794: 2, L0657: 2, L0809: 2, H0670: 2, H0521: 2, H0445: 2, H0136: 2, H0542: 2, H0656: 1, H0484: 1, H0255: 1, S0354: 1, S0358: 1, S0360: 1, H0550: 1, H0370: 1, H0597: 1, H0081: 1, H0012: 1, H0620: 1, H0266: 1, H0553: 1, S0364: 1, H0063: 1, H0488: 1, H0412: 1, H0059: 1,		

							H0494: 1, H0561: 1, H0509: 1, S0144: 1, S0344: 1, S0210: 1, S0002: 1, L0770: 1, L0667: 1, L0772: 1, L0771: 1, L0662: 1, L0803: 1, L0774: 1, L0806: 1, L0655: 1, L0659: 1, L0636: 1, L0783: 1, L0663: 1, L0664: 1, L0665: 1, H0519: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, L0602: 1, H0436: 1, L0779: 1, S0031: 1, L0595: 1 and S0424: 1.		
HKMNH37	1054550	805	22 - 1206	2980	Ser-24 to Thr-31, Pro-164 to Asn-173, Val-185 to Arg-192, Gln-199 to Gly-204, Lys-250 to Gly-258, Gln-265 to Ser-277, Gln-322 to Gly-327, Ala-334 to Ser-343, Pro-349 to Cys-356.	L0777: 5, L0748: 4, S0007: 2, L0764: 2, L0809: 2, L0750: 2, L0759: 2, H0669: 1, H0730: 1, H0431: 1, L0022: 1, H0581: 1, H0057: 1, H0271: 1, H0428: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0805: 1, L0655: 1, L0657: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1,			

HPDWP21	1054662	806	63 - 797	2981	Lys-26 to Glu-41, Lys-149 to Ala-156, Arg-214 to Lys-225, Ile-229 to Lys-235, Glu-240 to His-245.	L0743: 1, L0740: 1, L0751: 1, L0747: 1, L0756: 1, H0445: 1, L0599: 1, H0423: 1, L0698: 1 and H0352: 1. L0659: 10, L0439: 5, L0378: 4, L0748: 4, L0777: 4, H0657: 3, L0662: 3, L0655: 3, L0665: 3, S0428: 3, H0658: 3, S0434: 3, H0618: 2, S0474: 2, S0049: 2, H0309: 2, H0024: 2, H0412: 2, S0002: 2, S0426: 2, L0646: 2, L0771: 2, L0774: 2, L0657: 2, L0664: 2, H0696: 2, S0027: 2, L0588: 2, L0605: 2, L0601: 2, H0556: 1, T0002: 1, H0716: 1, S0116: 1, H0661: 1, H0662: 1, S0418: 1, S0442: 1, S0444: 1, H0208: 1, S0132: 1, S0476: 1, H0619: 1, H0351: 1, S6022: 1, H0549: 1, S0220: 1, H0455: 1, H0427: 1, S0280: 1,		
---------	---------	-----	----------	------	---	--	--	--

HOGCS52	1054677	807	21 - 1388	2982	Met-31 to Arg-37,	H0706: 1, T0071: 1, H0544: 1, H0546: 1, H0545: 1, N0006: 1, H0123: 1, H0057: 1, S0051: 1, H0188: 1, H0031: 1, L0055: 1, H0673: 1, H0708: 1, H0163: 1, H0090: 1, H0634: 1, H0087: 1, H0623: 1, H0059: 1, S0386: 1, H0633: 1, H0538: 1, H0695: 1, L0763: 1, L0769: 1, L0638: 1, L0639: 1, L5565: 1, L0667: 1, L0764: 1, L0650: 1, L0775: 1, L0375: 1, L0807: 1, L0542: 1, L0384: 1, L0666: 1, H0144: 1, H0519: 1, S0008: 1, H0660: 1, H0518: 1, H0521: 1, S0044: 1, H0436: 1, S0037: 1, S3014: 1, L0744: 1, L0740: 1, L0731: 1, L0757: 1, L0758: 1, S0031: 1, H0445: 1, S0194: 1, H0423: 1 and H0721: 1.	AR096: 52, AR039:
---------	---------	-----	-----------	------	-------------------	--	-------------------

Thr-157 to Arg-176, Gly-183 to Tyr-188, Leu-229 to Asp-234, Leu-275 to Lys-280, Thr-381 to Asn-386, Asp-424 to Arg-434.	49, AR089: 49, AR053: 43, AR060: 33, AR061: 20, AR055: 19, AR104: 18, AR033: 17 L0751: 8, L0754: 8, L0769: 6, L0803: 6, L0748: 6, H0100: 5, H0435: 5, L0439: 5, L0758: 5, L0665: 4, L0747: 4, L0749: 4, S0114: 3, H0619: 3, H0546: 3, H0457: 3, S0002: 3, L0637: 3, L0657: 3, H0658: 3, L0743: 3, L0777: 3, L0780: 3, H0445: 3, S0040: 2, H0255: 2, H0645: 2, S0278: 2, H0024: 2, H0416: 2, H0030: 2, H0553: 2, H0135: 2, H0649: 2, L0770: 2, L0804: 2, L0774: 2, L0805: 2, L0659: 2, H0659: 2, H0518: 2, H0555: 2, L0755: 2, L0757: 2, L0599: 2, L0603: 2, H0423: 2, H0265: 1, H0556: 1, L0460: 1, H0295: 1, S0218: 1.
--	--

H0583: 1, H0650: 1, S0212: 1, H0483: 1, H0402: 1, H0125: 1, S0418: 1, S0420: 1, S0356: 1, S0360: 1, S0046: 1, L0717: 1, H0261: 1, H0370: 1, H0391: 1, H0438: 1, H0486: 1, T0039: 1, H0250: 1, H0156: 1, L0021: 1, H0575: 1, T0082: 1, H0253: 1, S0474: 1, T0071: 1, H0581: 1, S0049: 1, H0052: 1, H0235: 1, H0150: 1, L0471: 1, H0620: 1, S0362: 1, S0388: 1, T0010: 1, H0594: 1, H0266: 1, H0188: 1, H0687: 1, H0292: 1, H0615: 1, H0688: 1, H0048: 1, H0424: 1, H0031: 1, H0644: 1, L0143: 1, H0181: 1, H0617: 1, L0455: 1, H0708: 1, H0163: 1, H0591: 1, H0551: 1, H0488: 1, H0646: 1, S0344: 1, L0762: 1, L0640: 1,	
--	--

[illegible]

Asp-85 to Ala-116, Gln-132 to Lys-140, Phe-143 to Leu-152.	L0747: 10, L0005: 9, L0755: 8, L0754: 7, L0731: 6, L0776: 5, L0758: 5, L0759: 5, H0141: 4, H0585: 4, S0360: 4, L0770: 4, L0771: 4, L0775: 4, S0374: 4, L0756: 4, L0763: 3, L0764: 3, L0766: 3, L0806: 3, L0751: 3, L0749: 3, H0668: 3, H0543: 3, H0295: 2, H0638: 2, S0222: 2, S0210: 2, L0662: 2, L0774: 2, L0783: 2, L0792: 2, H0144: 2, S0152: 2, S0406: 2, L0748: 2, L0750: 2, L0757: 2, H0542: 2, H0624: 1, H0171: 1, T0002: 1, H0294: 1, S0218: 1, S0430: 1, H0656: 1, H0341: 1, H0661: 1, H0228: 1, S0348: 1, S0376: 1, S0444: 1, S0408: 1, S0045: 1, S0278: 1, H0431: 1, H0586: 1, H0587: 1, H0497: 1, H0486: 1,
--	---

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

							AR039: 0, AR104: 0 S0444: 5, S0360: 4, S0408: 3, H0625: 3, H0436: 3, S0358: 2, H0641: 2, L0803: 2, S0374: 2, H0656: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0392: 1, H0427: 1, H0457: 1, H0538: 1, H0547: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0192: 1, H0423: 1 and H0422: 1.			
HKZBM58	1054812	810	33 - 584	2985	Leu-25 to Arg-30, Glu-41 to Thr-56, Met-74 to Asn-81, Tyr-108 to Thr-116, Asp-126 to Gly-131, Met-141 to Asp- 149, Pro-170 to Tyr-184.		L0748: 19, S0372: 12, L0747: 12, L0750: 9, S0408: 7, L0752: 7, L0731: 7, L0758: 7, H0031: 6, L0439: 6, L0740: 6, L0769: 5, L0757: 5, L0471: 4, L0065: 4, H0672: 4, H0543: 4, H0341: 3, H0318: 3, H0616: 3, H0413: 3, L0771: 3, L0803: 3, L0790: 3, H0547: 3, H0689: 3, H0658: 3, S0406: 3, H0436: 3, L0779: 3,			

				H0686: 2, S0212: 2, H0662: 2, S0356: 2, S0358: 2, S0360: 2, H0675: 2, H0580: 2, H0370: 2, L0623: 2, H0486: 2, H0575: 2, S0010: 2, H0428: 2, H0628: 2, H0674: 2, H0038: 2, H0056: 2, S0440: 2, L0520: 2, L0764: 2, L0767: 2, L0794: 2, L0766: 2, L0775: 2, L0783: 2, L0809: 2, L0791: 2, L0665: 2, H0659: 2, H0651: 2, S0330: 2, H0539: 2, H0134: 2, L0754: 2, S0260: 2, L0362: 2, L0361: 2, H0668: 2, L0440: 1, H0265: 1, H0295: 1, S0114: 1, T0049: 1, H0484: 1, H0661: 1, H0638: 1, S0354: 1, S0007: 1, S0045: 1, S0132: 1, H0619: 1, H0411: 1, S0222: 1, H0392: 1, H0592: 1, H0333: 1, H0574: 1, T0039: 1, T0114: 1,		
--	--	--	--	--	--	--

H0013: 1, L0021: 1, H0599: 1, T0082: 1, S0474: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0597: 1, H0327: 1, H0545: 1, H0178: 1, H0373: 1, S0320: 1, L0171: 1, H0266: 1, H0084: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0644: 1, H0181: 1, L0055: 1, L0455: 1, H0163: 1, H0040: 1, H0551: 1, H0412: 1, S0038: 1, H0100: 1, T0041: 1, H0494: 1, H0560: 1, H0561: 1, H0509: 1, S0150: 1, L0598: 1, H0529: 1, L0763: 1, L0637: 1, L0646: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, L0526: 1, L0518: 1, L0519: 1, L0789: 1, L0666: 1, S0374: 1, H0519: 1, H0684: 1, H0660: 1, H0666: 1, H0648: 1, H0522: 1, S0146: 1,
--

								H0555: 1, S0028: 1, L0742: 1, L0753: 1, H0445: 1, H0595: 1, S0434: 1, L0592: 1, L0485: 1, L0608: 1, S0194: 1 and L0600: 1.			
HTEOV06	1054813	811	311 - 799	2986	Glu-12 to Thr-27, Met-45 to Asn-52, Tyr-79 to Thr-87, Asp-97 to Tyr-103, Met-120 to Asp- 128, Pro-149 to Tyr-163.			L0747: 2, H0556: 1, S0134: 1, H0341: 1, S0444: 1, H0013: 1, H0575: 1, H0050: 1, H0687: 1, H0628: 1, H0090: 1, H0616: 1, H0551: 1, S0440: 1, H0710: 1, L0748: 1, L0740: 1 and S0434: 1.			
HAMGH34	1055012	812	1446 - 661	2987	Thr-8 to Ala-15, Lys-29 to Ser-39, Lys-44 to Asn-52, Gly-61 to Pro-68.			H0560: 1, S0426: 1, L0776: 1, L0545: 1, L0588: 1, L0591: 1 and H0542: 1.			
HTEHP29	1055174	813	889 - 305	2988	Gly-1 to His-8, Pro-13 to Asn-30.			L0483: 6, L0749: 5, L0659: 4, L0766: 3, L0591: 3, H0038: 2, L0769: 2, L0665: 2, L0438: 2, H0539: 2, L0758: 2, L0759: 2, L0588: 2, H0650: 1, H0664: 1, S0360: 1, S0003: 1, H0615: 1, H0553: 1, H0644: 1, H0169: 1, S0438: 1,			

HNOJJ32	1055248	814	532 - 1914	2989	Gln-2 to Asp-7, Lys-34 to Arg-53, Gly-61 to Glu-70.	S0422: 1, L0770: 1, L0662: 1, L0804: 1, L0776: 1, L0666: 1, S0374: 1, S0310: 1, H0520: 1, S0126: 1, L0748: 1, L0439: 1, L0747: 1 and L0757: 1. H0046: 13, L0439: 6, S0360: 3, H0024: 3, L0769: 3, L0805: 3, L0748: 3, L0749: 3, H0624: 2, H0100: 2, H0520: 2, S0436: 2, L0592: 2, H0685: 1, H0717: 1, H0661: 1, H0664: 1, H0449: 1, S0420: 1, S0376: 1, S0007: 1, S0476: 1, S0300: 1, L0717: 1, H0013: 1, H0156: 1, L0021: 1, H0575: 1, S0010: 1, S0474: 1, L0738: 1, H0178: 1, H0018: 1, S6028: 1, H0188: 1, H0687: 1, H0252: 1, H0428: 1, H0553: 1, S0036: 1, H0038: 1, H0264: 1, S0038: 1, H0561: 1, S0450: 1, S0422: 1,		
---------	---------	-----	------------	------	---	--	--	--

HFPHF52	1055304	815	2 - 1333	2990	Ala-1 to Phe-8, Glu-16 to Gly-52, Ser-64 to Glu-80, Leu-94 to Lys-99, Ser-123 to Glu-136, His-157 to Ser-164, Lys-179 to Pro-190, Arg-220 to Glu-226, Phe-244 to Arg-252, Lys-277 to Thr-288, Glu-305 to Gly-310, Glu-328 to Glu-334, Pro-390 to Ala-401, Pro-411 to Gln-417.	S0002: 1, L5566: 1, L0803: 1, L0651: 1, L0776: 1, L0789: 1, S0330: 1, S0332: 1, H0704: 1, S0406: 1, L0740: 1, L0780: 1, L0758: 1, L0759: 1, H0595: 1, S0434: 1, L0595: 1, S0026: 1, H0543: 1, H0423: 1 and H0008: 1.	19q13.4	134790, 191044, 600040, 600138
---------	---------	-----	----------	------	--	--	---------	---

HBNMF62	1055381	816	266 - 679	2991	Pro-13 to Gly-25, Arg-47 to Gly-54, Pro-74 to Lys-81, His-87 to Trp-93, Glu-107 to Arg-137.	L0002: 1, L0717: 1, H0369: 1, H0455: 1, H0438: 1, H0642: 1, H0331: 1, H0244: 1, H0156: 1, S0010: 1, H0052: 1, L0118: 1, H0051: 1, S0048: 1, S0051: 1, T0010: 1, S6028: 1, L0142: 1, H0674: 1, T0027: 1, L0435: 1, L0369: 1, L0662: 1, L0658: 1, L0659: 1, L0789: 1, L0790: 1, L0791: 1, L0792: 1, L0666: 1, T0068: 1, H0519: 1, S0122: 1, H0672: 1, H0539: 1, S0260: 1 and L0592: 1.		
						AR089: 2, AR052: 2, AR055: 2, AR039: 1, AR060: 1, AR096: 1, AR033: 1, AR053: 1, AR061: 1, AR104: 0 L0754: 7, L0748: 4, S0007: 3, L0771: 3, L0749: 3, L0750: 3, L0600: 3, L0717: 2, H0618: 2, H0046: 2, H0561: 2, S0422: 2,		

HTPHO72	1055426	817	2 - 1048	2992	<p>Gly-8 to Arg-14, Pro-24 to Arg-29, Leu-64 to Arg-73, His-91 to Arg-97, Tyr-141 to Thr-148, Glu-153 to Met-158, Asp-173 to Arg-180, Lys-185 to Pro-199, Glu-228 to Asp-235,</p>	<p>L0763: 2, L0637: 2, L0794: 2, L0659: 2, H0660: 2, L0439: 2, L0755: 2, T0002: 1, H0583: 1, H0671: 1, S0354: 1, S6016: 1, H0586: 1, L0021: 1, H0052: 1, S0051: 1, T0010: 1, H0083: 1, H0553: 1, H0135: 1, H0063: 1, H0633: 1, L0639: 1, L0646: 1, L0649: 1, L0375: 1, L0655: 1, L0545: 1, L0647: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0378: 1, H0696: 1, L0751: 1, L0752: 1, L0758: 1, L0759: 1, L0596: 1, L0608: 1 and H0423: 1.</p>	<p>15q22.33- q24.1</p>	<p>151670, 231680, 276700, 600374, 601780</p>
---------	---------	-----	----------	------	---	---	----------------------------	---

Leu-244 to Glu-258, Lys-264 to Pro-281, Asn-310 to Ser-316, Glu-331 to Leu-349.	L0717: 3, H0550: 3, H0251: 3, H0622: 3, H0553: 3, L0598: 3, L0646: 3, L0794: 3, L0517: 3, H0144: 3, L0438: 3, L0757: 3, L0785: 2, S0212: 2, S0358: 2, S0360: 2, H0013: 2, H0052: 2, H0150: 2, S0003: 2, H0644: 2, H0059: 2, L0520: 2, L0766: 2, L0804: 2, L0806: 2, L0659: 2, H0520: 2, H0593: 2, H0658: 2, S0330: 2, H0521: 2, L0747: 2, L0750: 2, L0756: 2, L0608: 2, H0422: 2, H0170: 1, H0171: 1, H0149: 1, H0713: 1, H0125: 1, S0418: 1, S0376: 1, S0408: 1, H0580: 1, S0045: 1, H0549: 1, S0222: 1, H0612: 1, H0600: 1, H0586: 1, H0574: 1, H0632: 1, L0021: 1, H0575: 1, H0004: 1, L0109: 1, L0738: 1, H0530: 1,					
--	--	--	--	--	--	--

HOPKL18	1055439	818	2 - 1438	2993	Glu-35 to Pro-41, Ala-55 to Arg-67,	L0041: 1, N0006: 1, H0014: 1, L0163: 1, S0051: 1, H0266: 1, S0214: 1, H0615: 1, H0428: 1, T0006: 1, H0674: 1, H0068: 1, S0036: 1, H0616: 1, H0551: 1, H0100: 1, H0494: 1, H0560: 1, S0472: 1, H0646: 1, L0770: 1, L0639: 1, L0761: 1, L0772: 1, L0773: 1, L0653: 1, L0629: 1, L0657: 1, L0529: 1, L0665: 1, S0374: 1, H0519: 1, H0682: 1, H0659: 1, H0670: 1, H0666: 1, H0672: 1, H0539: 1, S0380: 1, S0404: 1, S0406: 1, H0436: 1, H0478: 1, H0627: 1, S0028: 1, L0777: 1, L0780: 1, L0755: 1, L0731: 1, S0196: 1, H0542: 1, H0423: 1, S0424: 1, L0600: 1 and H0352: 1.	L0754: 95, L0755: 38, H0545: 20, H0617: 14,	22q11.23	123620, 600850
---------	---------	-----	----------	------	-------------------------------------	--	---	----------	----------------

Ala-82 to Lys-87, Gly-94 to Asp-100, Lys-175 to Asp-181, Asp-185 to Trp-190, Gly-193 to Asp-199, Leu-247 to Trp-252, Pro-278 to Asp-283, Arg-395 to Phe-402, Pro-404 to Asp-410, Pro-412 to Trp-420, Gly-443 to Asp-450.	L0751: 12, H0622: 11, L0731: 10, L0659: 8, L0777: 7, L0759: 7, S0360: 6, H0544: 5, L0764: 5, L0748: 5, H0546: 4, L0750: 4, L0780: 4, L0603: 4, H0620: 3, H0644: 3, H0606: 3, H0059: 3, L0771: 3, L0766: 3, L0806: 3, L0665: 3, H0684: 3, H0618: 2, H0086: 2, H0181: 2, L0644: 2, L0375: 2, L0666: 2, L0664: 2, L0744: 2, L0747: 2, L0779: 2, L0752: 2, L0757: 2, L0758: 2, L0605: 2, H0624: 1, H0171: 1, H0661: 1, H0662: 1, S0046: 1, H0549: 1, H0251: 1, H0012: 1, T0003: 1, H0039: 1, H0553: 1, H0316: 1, H0040: 1, H0477: 1, S0352: 1, L0763: 1, L0769: 1, L0796: 1, L0761: 1, L0772: 1, L0773: 1, L0648: 1, L0807: 1,
--	---

HBAAE59	1055446	819	807 - 145	2994				L0658: 1, L0663: 1, H0658: 1, S0332: 1, H0555: 1, L0749: 1 and L0597: 1. L0748: 5, L0747: 5, L0766: 3, L0439: 3, L0749: 3, L0752: 3, L0717: 2, L0763: 2, L0772: 2, L0776: 2, L0753: 2, L0731: 2, L0758: 2, L0605: 2, H0580: 1, S0222: 1, L0022: 1, L0157: 1, H0014: 1, H0622: 1, H0617: 1, H0040: 1, H0616: 1, L0435: 1, T0041: 1, S0426: 1, L0598: 1, L0369: 1, L0373: 1, L0764: 1, L0773: 1, L0662: 1, L0768: 1, L0387: 1, L0809: 1, L0529: 1, L0438: 1, H0659: 1, S0404: 1, H0555: 1, S0028: 1, L0742: 1, L0779: 1, L0777: 1, L0755: 1, L0588: 1, L0599: 1, L0604: 1, S0276: 1 and H0422: 1.	3p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 600163
HTXKD84	1055467	820	1845 -	2995	Lys-18 to Glu-24,			L0439: 13, H0424: 8,		

			1177	Leu-45 to Ile-54, Ala-105 to Thr-114, Pro-123 to Leu-130, Leu-167 to Lys-175, Pro-190 to Pro-195, Val-211 to Ser-218.	H0547: 8, L0751: 7, L0777: 6, H0556: 4, H0617: 4, L0435: 4, L0776: 4, L0750: 4, H0253: 3, H0135: 3, H0038: 3, L0774: 3, L0666: 3, S0206: 3, L0605: 3, H0543: 3, H0423: 3, H0624: 2, S0418: 2, L0005: 2, S0007: 2, H0208: 2, S0132: 2, H0013: 2, T0010: 2, H0290: 2, H0213: 2, H0494: 2, L0766: 2, L0659: 2, L0663: 2, L0665: 2, L0438: 2, H0520: 2, H0682: 2, L0743: 2, L0748: 2, L0779: 2, L0758: 2, L0592: 2, H0265: 1, S0040: 1, H0295: 1, S0218: 1, H0657: 1, H0656: 1, S0001: 1, H0402: 1, H0459: 1, S0420: 1, S0046: 1, H0351: 1, H0602: 1, H0586: 1, L0622: 1, H0101: 1, S0280: 1, H0599: 1, H0575: 1, TQ082: 1,		
--	--	--	------	--	--	--	--

			H0618: 1, H0052: 1, H0309: 1, T0110: 1, H0545: 1, H0046: 1, H0041: 1, H0050: 1, H0024: 1, H0057: 1, H0051: 1, H0271: 1, H0416: 1, H0188: 1, H0292: 1, H0286: 1, H0252: 1, H0615: 1, T0006: 1, H0418: 1, H0606: 1, H0674: 1, L0455: 1, H0124: 1, H0068: 1, H0090: 1, H0040: 1, H0616: 1, T0067: 1, H0264: 1, H0488: 1, H0413: 1, H0623: 1, H0059: 1, L0351: 1, T0041: 1, S0306: 1, H0641: 1, H0538: 1, S0210: 1, L0369: 1, L0520: 1, L0763: 1, L0770: 1, L0771: 1, L0662: 1, L0649: 1, L0522: 1, L0375: 1, L0655: 1, L0367: 1, L0664: 1, H0689: 1, H0435: 1, H0659: 1, H0648: 1, H0651: 1, S0380: 1, H0521: 1, S0168: 1,					
--	--	--	--	--	--	--	--	--

								H0134: 1, S3014: 1, L0742: 1, L0744: 1, L0740: 1, L0754: 1, L0755: 1, L0759: 1, L0603: 1, H0668: 1, S0196: 1, H0422: 1 and H0352: 1.			
HTXRR82	1055480	821	408 - 1364	2996	Val-7 to Glu-20, Pro-99 to Lys-105, Glu-113 to Val-119, Ser-136 to Trp-142, Ala-159 to His-164.			H0556: 2, H0135: 2, S0040: 1, H0657: 1, H0586: 1, H0013: 1, H0428: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0775: 1, H0521: 1, L0748: 1, L0749: 1, L0759: 1 and H0543: 1.			
HAIBU62	1055582	822	1 - 1518	2997	Arg-44 to Val-54.			L0439: 9, S0136: 7, L0777: 3, L0779: 2, H0624: 1, H0170: 1, H0686: 1, H0656: 1, S0408: 1, S0132: 1, H0374: 1, H0266: 1, H0551: 1, L0521: 1, L0662: 1, L0794: 1, L0766: 1, L0381: 1, L0803: 1, L0659: 1, L0809: 1, L0663: 1, L0438: 1, H0659: 1, H0539: 1, L0752: 1, L0592: 1 and L0595: 1.			

HDTAY29	1055632	823	1276 - 686	2998		L0731: 5, H0038: 3, L0766: 2, H0683: 2, H0670: 2, H0660: 2, L0747: 2, L0749: 2, L0779: 2, L0758: 2, H0583: 1, S0420: 1, S0360: 1, H0486: 1, H0156: 1, H0599: 1, H0581: 1, H0597: 1, H0247: 1, H0494: 1, H0647: 1, S0210: 1, L0794: 1, L0804: 1, H0436: 1, S0027: 1, L0596: 1, L0485: 1 and H0542: 1.		
HCOQD79	1055767	824	42 - 689	2999	Trp-8 to Gly-16, Ala-18 to Ala-26, His-28 to His-41, Pro-79 to Glu-85.	L0769: 3, H0484: 1, H0546: 1, H0178: 1, H0553: 1, S0366: 1, L0770: 1, L0761: 1, L0772: 1, L0372: 1, L0374: 1, L0645: 1, L0771: 1, L0766: 1, L0653: 1, L0666: 1, L0664: 1, H0670: 1, S0406: 1, L0777: 1, L0601: 1 and S0446: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273,

HAMHN12	1055899	825	2 - 1129	3000	Ala-20 to Arg-28, Gly-37 to Thr-47, Pro-50 to Asn-56, Pro-77 to Ala-82, Thr-114 to Ala-119, Pro-133 to Thr-141, Gly-150 to Cys-161, Pro-165 to Asn-177, Thr-179 to Gly-188, Glu-198 to Cys-212, Ile-216 to Arg-222, Val-254 to Arg-265, Ser-271 to Leu-276, Lys-281 to Asn-286, Pro-341 to Lys-346, Ala-349 to Met-355.	AR096: 626, AR039: 392, AR089: 360, AR053: 315, AR060: 315, AR033: 157, AR104: 153, AR061: 115, AR055: 31 L0518: 7, L0777: 6, L0809: 5, L0744: 4, L0649: 2, L0659: 2, H0658: 2, L0748: 2, L0747: 2, L0750: 2, H0411: 1, H0013: 1, L0021: 1, H0123: 1, H0050: 1, H0163: 1, H0560: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0662: 1, L0375: 1, L0776: 1, L0439: 1, L0749: 1, L0779: 1 and L0599: 1.	601313, 601785	
HODIY67	1056000	826	2 - 1957	3001	Ala-27 to Lys-35, Arg-63 to Ile-70, Tyr-100 to Ala-105, Ser-159 to Thr-168.	L0766: 6, L0776: 6, L0777: 5, L0803: 4, L0731: 3, L0759: 3, S0222: 2, H0013: 2, L0157: 2, L0805: 2, L0666: 2, H0521: 2, L0740: 2, L0361: 2, H0170: 1, H0171: 1,	15q	

HNTRS57	1056097	827	2 - 1357	3002	Asn-6 to Val-11.	S0212: 1, S0442: 1, S0358: 1, S0376: 1, S0444: 1, S0360: 1, L0717: 1, H0587: 1, S0414: 1, H0250: 1, H0427: 1, H0575: 1, H0596: 1, H0546: 1, S0003: 1, H0615: 1, H0644: 1, H0040: 1, H0477: 1, H0646: 1, H0538: 1, L0763: 1, L0638: 1, L0804: 1, L0774: 1, L0809: 1, L0519: 1, L0788: 1, L4501: 1, L0665: 1, S0374: 1, H0690: 1, H0648: 1, H0651: 1, S0328: 1, H0539: 1, S0404: 1, H0436: 1, L0750: 1, L0779: 1, S0434: 1, L0599: 1 and L0595: 1.		
						AR096: 2, AR060: 1, AR089: 1, AR039: 0, AR033: 0, AR104: 0, AR055: 0, AR061: 0 L0747: 16, L0758: 8, L0751: 7, L0774: 6, H0617: 5, L0803: 5, L0809: 5, L0794: 4,		

				L0766: 4, L0666: 4, L0777: 4, L0581: 4, H0265: 3, L0534: 3, H0004: 3, L0764: 3, H0682: 3, L0750: 3, S0212: 2, S0418: 2, S0358: 2, H0013: 2, H0424: 2, H0181: 2, H0616: 2, L0769: 2, L0761: 2, L0775: 2, L0375: 2, L0655: 2, L0657: 2, L0659: 2, L0663: 2, L0665: 2, H0547: 2, H0658: 2, H0670: 2, H0660: 2, H0648: 2, L0749: 2, L0752: 2, L0755: 2, L0759: 2, L0589: 2, L0608: 2, H0423: 2, H0624: 1, H0170: 1, H0556: 1, H0685: 1, H0717: 1, H0738: 1, H0341: 1, H0484: 1, S0442: 1, S0360: 1, H0393: 1, H0441: 1, H0392: 1, H0415: 1, H0587: 1, H0333: 1, S0280: 1, H0156: 1, H0599: 1, H0052: 1, H0205: 1, H0150: 1,
--	--	--	--	--

HUKFL74	1056102	828	1 - 177	3003	Arg-13 to Glu-21, Ser-36 to Gly-57.	H0375: 1, H0615: 1, H0644: 1, H0606: 1, H0038: 1, H0412: 1, H0494: 1, S0422: 1, S0426: 1, L0763: 1, L0770: 1, L0639: 1, L0662: 1, L0768: 1, L0649: 1, L0804: 1, L0805: 1, L0776: 1, L0783: 1, L0793: 1, L0664: 1, H0144: 1, S0374: 1, H0593: 1, S0126: 1, H0689: 1, H0539: 1, H0518: 1, S0013: 1, S0404: 1, H0576: 1, S0027: 1, L0786: 1, L0780: 1, L0731: 1, H0595: 1, L0601: 1, H0668: 1, H0653: 1, H0665: 1 and S0194: 1.	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843
---------	---------	-----	---------	------	--	--	---------	---

HTEBF05	1056104	829	3 - 344	3004	Arg-7 to Thr-15, Leu-23 to Asp-30, Glu-37 to Val-48, Thr-54 to Pro-64,	L0615: 1, H0159: 1, S0040: 1, H0483: 1, H0254: 1, S0410: 1, H0734: 1, H0549: 1, H0574: 1, H0485: 1, H0013: 1, H0618: 1, H0052: 1, H0597: 1, H0150: 1, H0408: 1, H0416: 1, H0188: 1, H0252: 1, H0030: 1, H0644: 1, S0366: 1, H0634: 1, T0067: 1, H0059: 1, T0042: 1, H0560: 1, H0647: 1, L0763: 1, L0371: 1, L0637: 1, L0667: 1, L0800: 1, L0764: 1, L0771: 1, L0767: 1, L0768: 1, L0803: 1, L0776: 1, L0659: 1, L0789: 1, L0532: 1, L0665: 1, H0144: 1, H0698: 1, S0126: 1, S0392: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1 and S0436: 1.	AR061: 3, AR039: 3, AR089: 3, AR096: 2, AR053: 2, AR060: 2, AR055: 1, AR104: 1,	3p25	154705, 193300, 193300, 227646,
---------	---------	-----	---------	------	---	---	--	------	--

					Thr-103 to Thr-108.	AR033: 1 L0665: 4, H0659: 2, H0553: 1, H0038: 1, L0659: 1, L0777: 1, L0758: 1 and L0601: 1.			253260, 278720, 601154, 601253, 602011
HOPKD19	1056275	830	158 - 1084	3005	Ala-95 to Ser-101, Pro-103 to Asp-108, Glu-177 to Lys-183, Lys-226 to Lys-234, Leu-252 to Gly-257, Gln-293 to Ser-301.	H0556: 29, L0748: 28, L0745: 18, H0620: 16, H0040: 15, L0595: 14, H0547: 13, S0358: 12, L0777: 12, H0559: 11, S0046: 9, S0440: 9, L0740: 9, H0265: 8, H0494: 8, L0751: 8, H0341: 7, S0408: 7, L0646: 7, S0126: 7, L0746: 7, L0747: 7, H0543: 7, H0657: 6, H0318: 6, H0052: 6, H0135: 6, L0775: 6, L0655: 6, L0666: 6, H0519: 6, S0406: 6, S0045: 5, H0486: 5, H0581: 5, H0024: 5, L0375: 5, L0659: 5, H0520: 5, S0206: 5, L0750: 5, L0752: 5, T0002: 4, H0717: 4, H0484: 4, S0376: 4, H0497: 4, H0257: 4, H0545: 4, H0644: 4,	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096	

	H0634: 4, H0087: 4, L0766: 4, L0805: 4, L0663: 4, H0144: 4, H0134: 4, S0028: 4, L0744: 4, L0757: 4, L0596: 4, L0588: 4, S0424: 4, S0116: 3, H0663: 3, H0125: 3, S0356: 3, S0410: 3, H0619: 3, H0549: 3, S0182: 3, H0009: 3, H0123: 3, H0266: 3, L0483: 3, T0006: 3, H0100: 3, S0150: 3, S0144: 3, S0344: 3, L0637: 3, L0772: 3, L0764: 3, L0662: 3, L0649: 3, S0328: 3, H0521: 3, L0754: 3, L0758: 3, S0434: 3, S0436: 3, L0592: 3, L0593: 3, H0667: 3, H0422: 3, H0352: 3, H0624: 2, H0713: 2, H0716: 2, H0656: 2, H0662: 2, H0638: 2, S0442: 2, S0360: 2, H0208: 2, S0222: 2, H0592: 2, L0623: 2, H0013: 2, H0635: 2,				
--	--	--	--	--	--

	H0199: 2, H0083: 2, H0510: 2, H0594: 2, H0288: 2, H0622: 2, H0553: 2, H0111: 2, H0617: 2, H0551: 2, H0056: 2, S0038: 2, H0560: 2, H0538: 2, S0422: 2, H0529: 2, L0770: 2, L0769: 2, L0639: 2, L0761: 2, L0641: 2, L0626: 2, L0768: 2, L0650: 2, L0658: 2, L0809: 2, L0664: 2, H0699: 2, H0593: 2, H0689: 2, H0435: 2, H0658: 2, H0539: 2, H0436: 2, S3014: 2, L0743: 2, L0591: 2, L0485: 2, L0581: 2, H0542: 2, H0008: 2, H0170: 1, H0171: 1, H0224: 1, H0686: 1, S0040: 1, H0295: 1, S0114: 1, H0583: 1, L0785: 1, H0661: 1, S0418: 1, S0420: 1, S0354: 1, H0580: 1, S0007: 1, H0645: 1, H0393: 1, H0351: 1, S0278: 1,	
--	--	--

					H0369: 1, H0550: 1, H0431: 1, H0600: 1, H0586: 1, H0587: 1, H0333: 1, H0643: 1, T0114: 1, H0101: 1, H0069: 1, H0599: 1, H0575: 1, H0036: 1, H0390: 1, H0196: 1, T0103: 1, T0115: 1, H0597: 1, H0231: 1, H0546: 1, H0046: 1, H0041: 1, H0178: 1, L0471: 1, H0023: 1, T0003: 1, H0057: 1, H0014: 1, H0201: 1, S0388: 1, H0071: 1, H0354: 1, H0355: 1, H0375: 1, S6028: 1, H0271: 1, H0687: 1, H0290: 1, H0286: 1, H0110: 1, S0022: 1, H0252: 1, H0615: 1, H0428: 1, H0213: 1, H0030: 1, L0142: 1, H0628: 1, L0055: 1, H0212: 1, H0708: 1, H0316: 1, H0038: 1, H0063: 1, T0067: 1, H0379: 1, H0264: 1, H0272: 1, H0487: 1,
--	--	--	--	--	--

830

HLICR58	1056290	831	3 - 932	3006	Ser-48 to Asp-53, Asn-63 to Arg-69, Lys-77 to Lys-82.	AR061: 7, AR089: 7, AR053: 5, AR060: 5, AR033: 4, AR096: 4, AR055: 4, AR039: 3, AR104: 3, AR052: 0 L0750: 33, L0588: 29, H0341: 22, L0361: 22, L0748: 19, H0657: 18, H0648: 18, S0360: 17, H0670: 17, S0358: 16, H0170: 15, H0144: 14, L0752: 14, L0757: 13, L0758: 13, S0007: 12, H0494: 12, L0520: 12, H0543: 12, L0471: 11, L0521: 11, L0767: 11, H0659: 11, L0749: 11, L0783: 10, H0305: 9, S0046: 9, H0615: 9, L0754: 9, H0624: 8, H0014: 8, L0663: 8, S0126: 8, H0672: 8, L0591: 8, L0604: 8, H0136: 8, S0045: 7, H0031: 7, H0633: 7, H0436: 7, S0028: 7, H0125: 6, S0132: 6, H0411: 6, H0392: 6, H0574: 6, T0109: 6, S0438: 6, L0762: 6,		
---------	---------	-----	---------	------	---	--	--	--

L0517: 6, S0374: 6, H0660: 6, S0378: 6, S0027: 6, S0114: 5, H0333: 5, H0486: 5, H0545: 5, H0123: 5, H0328: 5, H0412: 5, H0413: 5, L0761: 5, L0776: 5, L0659: 5, L0526: 5, H0658: 5, S0380: 5, H0134: 5, L0740: 5, L0747: 5, L0605: 5, L0362: 5, H0422: 5, S0424: 5, H0686: 4, S0342: 4, S0376: 4, H0351: 4, H0586: 4, L0586: 4, H0250: 4, H0421: 4, H0009: 4, L0163: 4, H0083: 4, H0266: 4, S0022: 4, H0617: 4, H0135: 4, H0087: 4, H0116: 4, H0100: 4, L0662: 4, L0497: 4, L0655: 4, L0527: 4, L0657: 4, L0666: 4, H0666: 4, S0044: 4, H0576: 4, S012: 4, S014: 4, L0756: 4, H0171: 3, S6024: 3, H0484: 3, H0669: 3,
--

	S0410: 3, H0497: 3, H0632: 3, L0623: 3, H0599: 3, H0575: 3, T0048: 3, H0581: 3, H0597: 3, H0039: 3, H0644: 3, H0163: 3, H0551: 3, T0067: 3, T0041: 3, H0509: 3, S0422: 3, H0529: 3, L0770: 3, L0769: 3, L0648: 3, L0768: 3, L0364: 3, L0375: 3, L0806: 3, L0782: 3, L0543: 3, H0682: 3, S0328: 3, S0330: 3, L0751: 3, S0031: 3, H0445: 3, H0595: 3, L0594: 3, S0026: 3, H0665: 3, H0423: 3, L0600: 3, T0002: 2, H0685: 2, H0294: 2, S0218: 2, H0650: 2, H0483: 2, H0255: 2, H0671: 2, H0662: 2, H0306: 2, H0402: 2, S0420: 2, H0580: 2, H0393: 2, H0438: 2, H0592: 2, H0587: 2, L0622: 2, T0060: 2, H0156: 2, H0098: 2,					
--	--	--	--	--	--	--

	T0082: 2, S0010: 2, S0182: 2, H0318: 2, H0309: 2, T0115: 2, T0110: 2, H0012: 2, H0023: 2, H0024: 2, H0057: 2, H0015: 2, H0687: 2, H0286: 2, S0003: 2, H0688: 2, H0428: 2, T0006: 2, S0036: 2, H0090: 2, H0040: 2, H0059: 2, H0625: 2, H0646: 2, S0210: 2, L0598: 2, L0763: 2, L0500: 2, L0501: 2, L0549: 2, L0803: 2, L0376: 2, L0653: 2, L0542: 2, H0547: 2, H0214: 2, H0187: 2, S0392: 2, S0390: 2, L0742: 2, H0444: 2, L0596: 2, L0589: 2, L0590: 2, L0581: 2, L0599: 2, L0603: 2, H0668: 2, H0653: 2, S0192: 2, H0542: 2, S0452: 2, H0506: 2, L0615: 1, H0394: 1, H0159: 1, S0134: 1, H0583: 1, H0656: 1, L0760: 1,						
--	--	--	--	--	--	--	--

						L0785: 1, S0116: 1, S0212: 1, H0661: 1, H0663: 1, H0664: 1, H0589: 1, S0444: 1, H0675: 1, H0489: 1, H0730: 1, S0278: 1, H0369: 1, H0441: 1, H0492: 1, T0040: 1, H0013: 1, H0069: 1, H0635: 1, H0209: 1, H0251: 1, H0085: 1, H0263: 1, H0231: 1, H0327: 1, H0546: 1, H0150: 1, H0081: 1, T0003: 1, H0082: 1, H0373: 1, S0051: 1, H0510: 1, H0375: 1, L0171: 1, H0188: 1, S0336: 1, H0112: 1, H0048: 1, H0606: 1, L0055: 1, H0032: 1, H0166: 1, H0169: 1, H0211: 1, H0068: 1, S0366: 1, H0316: 1, H0634: 1, H0062: 1, H0155: 1, H0477: 1, H0488: 1, S0038: 1, H0279: 1, S0448: 1, S0464: 1, L0065: 1, H0131: 1, H0130: 1,
--	--	--	--	--	--	--

HISBE12	1056376	832	53 - 1276	3007	<p>Leu-76 to Lys-84, Lys-90 to Leu-97, His-115 to Thr-120, Pro-128 to Trp-136, Asp-393 to Ala-403.</p>	<p>H0641: 1, H0647: 1, S0144: 1, S0142: 1, L0640: 1, L0637: 1, L0646: 1, L0764: 1, L0363: 1, L0794: 1, L0766: 1, L0499: 1, L0522: 1, L0774: 1, L0775: 1, L0651: 1, L0378: 1, L0805: 1, L0509: 1, L0652: 1, L0555: 1, L0513: 1, L0656: 1, L0559: 1, L0384: 1, L0809: 1, L0529: 1, L0368: 1, L0532: 1, H0691: 1, H0520: 1, H0519: 1, H0684: 1, H0651: 1, S0454: 1, S0013: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0731: 1, H0343: 1, L0592: 1, L0485: 1, L0608: 1, L0593: 1, H0217: 1, H0216: 1, H0008: 1 and H0352: 1.</p>	<p>AR096: 6, AR060: 6, AR089: 5, AR052: 5, AR053: 3, AR033: 3, AR055: 1, AR061: 1, AR104: 1, AR039: 0</p>	
---------	---------	-----	-----------	------	--	---	---	--

HAJAH48	1056400	833	1 - 210	3008			Lys-10 to Ser-16, Pro-30 to Ala-36.	H0539: 8, H0046: 3, H0039: 2, H0553: 2, H0090: 2, L0750: 2, L0605: 2, S0282: 1, H0431: 1, H0036: 1, H0421: 1, H0196: 1, T0003: 1, S6028: 1, H0252: 1, H0031: 1, H0111: 1, H0591: 1, H0412: 1, T0068: 1, S0044: 1, L0752: 1, H0445: 1 and L0581: 1.		
HSKJC61	1056407	834	210 - 1436	3009			His-8 to Gly-18, Pro-58 to Lys-68, Gln-109 to Lys-115, Val-175 to Pro-180, Ser-221 to Asp-228, Thr-256 to His-261, Asp-287 to Asp- 294, Thr-321 to Asp-328, Asn-349 to Ile-357, Phe-376 to Glu-386, Pro-396 to Ser-409.	AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR061: 2, AR053: 2, AR039: 2, AR104: 2, AR033: 2 S0132: 2, S0358: 1, H0615: 1, T0023: 1, H0435: 1, S3014: 1, L0740: 1, L0591: 1 and L0362: 1.		
HEEBK29	1056454	835	1015 - 3060	3010					21q22.3	120220, 120240, 123580, 151385.

								171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145
HCHMM19	1056617	836	1 - 1182	3011				L0751: 25, L0665: 23, H0656: 12, L0743: 10, H0617: 9, H0620: 8, L0657: 8, H0318: 7, H0658: 7, H0650: 5, H0483: 5, H0657: 4, H0012: 4, H0024: 4, H0689: 4, H0341: 3, H0484: 3, H0618: 3, H0253: 3, H0688: 3, H0659: 3, H0670: 3, L0603: 3, S0358: 2, H0052: 2, H0615: 2, H0264: 2, H0100: 2, L0763: 2, L0637: 2, L0651: 2, L0659: 2, L0791: 2, L0663: 2, H0555: 2, L0748: 2, L0779: 2, S0282: 1, H0255: 1, H0306: 1, S0045: 1, L0717: 1,

HE8NG02	1056625	837	85 - 1041	3012	Thr-2 to Asn-10, Ser-72 to Lys-78, Gly-95 to Thr-101, Phe-134 to Ile-147, Lys-163 to Lys-172, Gln-199 to Glu-206, Ala-212 to Trp-224, Lys-230 to His-236, Arg-238 to Glu-244, Asp-249 to Gly-254, Met-260 to Tyr-266.	L0394: 1, H0549: 1, S6016: 1, S0222: 1, H0455: 1, H0635: 1, H0427: 1, S0280: 1, H0042: 1, H0122: 1, H0123: 1, H0050: 1, L0163: 1, H0356: 1, H0399: 1, H0594: 1, H0252: 1, H0553: 1, H0181: 1, H0673: 1, L0638: 1, L0639: 1, L0662: 1, L0766: 1, L0804: 1, L0666: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0660: 1, H0672: 1, L0754: 1, L0758: 1, S0458: 1, S0456: 1 and H0352: 1.		
					AR052: 4, AR039: 3, AR055: 3, AR060: 3, AR061: 3, AR089: 2, AR033: 2, AR053: 2, AR096: 1, AR104: 1 H0624: 4, H0170: 3, H0328: 3, H0329: 2, H0013: 2, L0747: 2, L0777: 2, H0046: 1 and L0759: 1.			

HWHKD22	1056654	838	1287 - 601	3013	Arg-272 to Arg-279. Thr-32 to His-38, Thr-46 to Asn-55, Asn-158 to Gly-165, Thr-191 to Asn-199.	AR096: 14, AR089: 14, AR033: 10, AR061: 8, AR060: 8, AR052: 7, AR055: 6, AR053: 5, AR104: 3, AR039: 2 L0766: 3, L0659: 3, L0744: 3, L0794: 2, L0805: 2, L0665: 2, H0648: 2, H0305: 1, H0586: 1, H0599: 1, H0428: 1, H0551: 1, S0038: 1, S0422: 1, L0763: 1, L0637: 1, L0662: 1, L0803: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0661: 1, L0787: 1, S0374: 1, H0520: 1, L0740: 1, L0750: 1, L0777: 1, L0752: 1, L0759: 1 and L0592: 1.			
HOCPJ87	1056666	839	22 - 1125	3014	Glu-5 to His-15, Phe-20 to Lys-41, Gln-43 to Tyr-49, Asn-146 to Thr-152, His-157 to Phe-164, Arg-181 to Gly-191, Lys-219 to Asn-224.	L0777: 6, L0766: 5, L0747: 5, L0744: 4, H0660: 3, L0750: 3, H0657: 2, L0769: 2, S0298: 1, S0360: 1, H0730: 1, H0592: 1, H0544: 1, H0629: 1,	18p11.3- p11.2	142946, 202200	

					Lys-261 to Leu-278, Thr-291 to Asn-297, Glu-302 to Thr-312, Ser-316 to Thr-342, Gln-344 to Asp-367.	S0334: 1, S0003: 1, H0591: 1, H0641: 1, L0598: 1, H0529: 1, L0762: 1, L0502: 1, L0763: 1, L0372: 1, L0646: 1, L0644: 1, L0768: 1, L0775: 1, L0806: 1, L0527: 1, H0144: 1, L0438: 1, H0690: 1, H0658: 1, H0648: 1, S0146: 1, S0406: 1, L0740: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, L0731: 1, L0758: 1, L0759: 1, S0434: 1 and H0506: 1.			
HAAAAA59	1056671	840	3 - 2765	3015	Lys-6 to Ser-15, Ser-23 to Ala-28, Thr-81 to Gln-89, Gln-191 to Gly-198.	H0694: 92, L0766: 9, L0747: 8, S0126: 7, L0439: 7, H0266: 6, L0776: 6, L0666: 6, L0748: 6, L0759: 6, H0622: 5, H0038: 5, H0623: 5, L0763: 5, L0659: 5, H0656: 4, S0358: 4, S0476: 4, H0486: 4, H0013: 4, L0598: 4, H0529: 4, L0662: 4, L0805: 4, L0655: 4, L0663: 4,			

	H0521: 4, S0434: 4, H0657: 3, H0497: 3, H0574: 3, H0328: 3, H0615: 3, H0644: 3, H0551: 3, L0770: 3, L0764: 3, L0665: 3, H0144: 3, S0374: 3, H0547: 3, H0659: 3, S0330: 3, L0752: 3, H0445: 3, S0436: 3, H0717: 2, H0638: 2, S0045: 2, L0717: 2, S0414: 2, H0485: 2, S0280: 2, H0156: 2, S0010: 2, H0032: 2, H0494: 2, S0440: 2, S0422: 2, L0667: 2, L0646: 2, L0768: 2, L0652: 2, L0438: 2, H0658: 2, H0539: 2, S0044: 2, H0555: 2, L0744: 2, L0751: 2, L0749: 2, L0777: 2, L0731: 2, L0758: 2, L0592: 2, L0581: 2, L0593: 2, H0653: 2, S0276: 2, H0543: 2, L0411: 1, H0556: 1, H0220: 1, H0738: 1, S0114: 1, T0049: 1,					
--	--	--	--	--	--	--

	H0583: 1, H0650: 1, S0116: 1, H0341: 1, S0212: 1, S0356: 1, S0354: 1, S0444: 1, S0360: 1, S0408: 1, H0722: 1, S0132: 1, H0619: 1, H0393: 1, H0437: 1, S0222: 1, H0431: 1, H0592: 1, H0586: 1, H0349: 1, H0036: 1, L0105: 1, T0048: 1, H0581: 1, H0374: 1, H0046: 1, H0123: 1, H0050: 1, L0471: 1, H0355: 1, S0250: 1, H0688: 1, H0029: 1, H0039: 1, L0483: 1, T0006: 1, H0553: 1, L0055: 1, H0169: 1, H0124: 1, H0068: 1, H0316: 1, H0591: 1, H0264: 1, H0268: 1, H0413: 1, H0056: 1, T0042: 1, S0016: 1, H0561: 1, S0438: 1, H0509: 1, S0150: 1, H0641: 1, H0646: 1, S0142: 1, S0344: 1, S0426: 1, L0371: 1, L0771: 1,					
--	--	--	--	--	--	--

HOSBJ18	1056672	841	422 - 2026	3016	Ile-15 to Lys-33, Phe-99 to Lys-104, Ile-107 to Cys-114.	L0521: 1, L0649: 1, L0389: 1, L0803: 1, L0804: 1, L0775: 1, L0661: 1, L0629: 1, L0657: 1, L0367: 1, L0789: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, S0378: 1, H0518: 1, S0152: 1, S0350: 1, H0522: 1, H0704: 1, S0406: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0757: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, S0194: 1, H0423: 1, S0424: 1 and H0008: 1.		
						L0779: 8, L0665: 6, L0731: 6, L0662: 4, L0663: 4, L0754: 4, H0486: 3, H0013: 3, S6028: 3, H0031: 3, L0598: 3, L0776: 3, L0666: 3, H0144: 3, S0126: 3, S0026: 3, S0214: 2, H0428: 2,		

	H0163: 2, H0090: 2, H0488: 2, L0649: 2, L0775: 2, H0660: 2, L0751: 2, L0756: 2, L0755: 2, L0758: 2, L0759: 2, L0596: 2, H0624: 1, S0046: 1, H0645: 1, H0586: 1, H0250: 1, H0156: 1, H0318: 1, T0071: 1, S0049: 1, H0457: 1, L0471: 1, H0057: 1, H0239: 1, H0266: 1, H0687: 1, S0003: 1, H0615: 1, H0553: 1, H0644: 1, H0316: 1, H0598: 1, H0591: 1, S0294: 1, S0150: 1, UNKWN: 1, L0763: 1, L0646: 1, L0766: 1, L0375: 1, L0527: 1, L0659: 1, L0518: 1, L0438: 1, H0593: 1, H0435: 1, H0648: 1, S0380: 1, S0152: 1, H0521: 1, H0627: 1, S0390: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0362: 1 and H0543: 1.					
--	---	--	--	--	--	--

HUSGX12	1056736	842	2 - 838	3017	Arg-1 to Thr-6, Arg-86 to Gly-91, Ser-102 to Leu-107, Leu-111 to Arg-122, Arg-140 to Gly-145, Glu-170 to Ser-195, Pro-200 to Thr-221, Gly-234 to Asp-250.	L0750: 4, H0622: 3, L0792: 3, H0619: 2, H0050: 2, L0759: 2, H0624: 1, H0661: 1, L0005: 1, S0376: 1, S0360: 1, H0575: 1, H0597: 1, H0687: 1, H0412: 1, L0065: 1, L0761: 1, L0800: 1, L0794: 1, L0784: 1, L0807: 1, H0690: 1, H0672: 1, S0206: 1, L0748: 1, L0751: 1, L0747: 1, L0779: 1 and H0445: 1.		
HPDRG02	1056764	843	2 - 1405	3018		S0360: 18, L0794: 15, L0748: 13, L0740: 10, H0521: 9, L0666: 8, L0766: 7, L0439: 7, H0046: 6, H0031: 6, L0803: 6, L0783: 6, H0547: 6, S0436: 6, L0595: 6, H0318: 5, H0494: 5, L0769: 5, L0764: 5, L0779: 5, S0192: 5, H0486: 4, L0770: 4, H0658: 4, S0152: 4, L0751: 4, L0747: 4, L0750: 4, L0777: 4, L0757: 4,	7	

S0242: 4, H0556: 3, S0408: 3, H0013: 3, H0620: 3, H0083: 3, S0250: 3, H0615: 3, H0213: 3, H0090: 3, H0268: 3, H0646: 3, L0800: 3, L0653: 3, L0809: 3, L0663: 3, H0689: 3, S3014: 3, L0749: 3, L0731: 3, L0596: 3, L0601: 3, H0657: 2, S0116: 2, H0341: 2, H0661: 2, S0418: 2, S0358: 2, S0045: 2, S0476: 2, H0393: 2, H0587: 2, H0574: 2, H0069: 2, T0048: 2, H0263: 2, H0544: 2, L0471: 2, H0673: 2, H0135: 2, H0591: 2, H0551: 2, H0412: 2, H0413: 2, S0440: 2, H0509: 2, H0131: 2, S0142: 2, S0002: 2, L0772: 2, L0662: 2, L5564: 2, L0655: 2, L0659: 2, L0647: 2, L0788: 2, L0664: 2, L0438: 2, H0519: 2, S0126: 2,							
--	--	--	--	--	--	--	--

				H0672: 2, H0696: 2, S0406: 2, S0027: 2, L0753: 2, S0434: 2, L0587: 2, L0599: 2, L0608: 2, S0196: 2, H0543: 2, H0265: 1, S0040: 1, H0295: 1, H0294: 1, S0218: 1, S0001: 1, H0638: 1, L0534: 1, L0562: 1, S0354: 1, S0410: 1, H0208: 1, S0046: 1, S0132: 1, S0278: 1, H0261: 1, H0549: 1, H0550: 1, S0222: 1, H0610: 1, H0497: 1, H0333: 1, H0632: 1, H0485: 1, H0270: 1, H0156: 1, L0021: 1, S0010: 1, H0581: 1, H0052: 1, H0085: 1, H0596: 1, L0040: 1, H0231: 1, H0546: 1, H0569: 1, H0050: 1, H0012: 1, H0024: 1, H0015: 1, H0594: 1, H0266: 1, H0688: 1, H0622: 1, H0424: 1, L0055: 1, H0038: 1, H0087: 1, T0067: 1,
--	--	--	--	--

HKZBB48	1056767	844	230 - 1660	3019	Ser-6 to Asp-14, Asp-24 to Glu-32, Asn-56 to Gln-62, Pro-83 to Pro-92, Gly-152 to Glu-169,	H0379: 1, H0264: 1, H0056: 1, H0561: 1, S0450: 1, S0150: 1, H0647: 1, S0144: 1, S0426: 1, L0640: 1, L0763: 1, L0638: 1, L0639: 1, L0637: 1, L0372: 1, L0771: 1, L0773: 1, L0649: 1, L0804: 1, L0650: 1, L0774: 1, L0776: 1, L0807: 1, L0657: 1, L0368: 1, L0791: 1, L0793: 1, L0665: 1, H0144: 1, L0352: 1, H0520: 1, H0435: 1, H0659: 1, H0670: 1, H0648: 1, S0330: 1, H0522: 1, H0631: 1, S0206: 1, L0752: 1, L0755: 1, L0758: 1, L0759: 1, S0260: 1, S0026: 1, H0542: 1, H0422: 1, H0506: 1 and H0008: 1.	L0754: 5, L0758: 5, L0777: 4, L0752: 4, H0574: 3, S0003: 3, L0803: 3, L0790: 3, L0666: 3, H0624: 2,	5q23.3- q31.1	121050, 131400, 147061, 147575, 147575,
---------	---------	-----	------------	------	--	--	---	------------------	---

					<p>Arg-376 to Lys-384, Glu-393 to Ser-406, Ser-441 to Gly-453.</p>	<p>S0358: 2, S0222: 2, L0369: 2, L0771: 2, L0768: 2, L0804: 2, L0774: 2, L0775: 2, L0776: 2, L0663: 2, H0539: 2, L0742: 2, L0748: 2, L0439: 2, L0750: 2, L0756: 2, L0779: 2, H0170: 1, L0002: 1, L0785: 1, S0356: 1, S0360: 1, H0580: 1, H0411: 1, H0437: 1, H0586: 1, H0497: 1, H0013: 1, L0021: 1, H0263: 1, H0050: 1, S0388: 1, H0060: 1, H0674: 1, H0090: 1, H0591: 1, L0564: 1, S0440: 1, L0648: 1, L0521: 1, L0794: 1, L0806: 1, L0655: 1, L0657: 1, L0783: 1, L0809: 1, L0789: 1, L0664: 1, H0144: 1, H0519: 1, H0689: 1, H0683: 1, H0704: 1, H0555: 1, L0740: 1, L0745: 1, L0749: 1, L0731: 1, L0759: 1 and L0601: 1.</p>		<p>147575, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 602089</p>
--	--	--	--	--	--	---	--	---

HHAWB19	1056774	845	3 - 1316	3020	Pro-1 to Pro-9.	S0418: 1, H0580: 1, S0278: 1, H0013: 1, H0046: 1 and H0547: 1.	1q42-q44	106150, 106150, 145260, 173870, 173870, 600759, 600996, 601744, 601975
HHATP38	1056786	846	3 - 650	3021	Arg-16 to Arg-22, Ser-52 to Lys-62, Ala-73 to Arg-78, Arg-153 to Leu-169, Arg-172 to Leu-195, Glu-203 to Arg-216.	AR104: 5, AR089: 5, AR060: 2, AR055: 2, AR096: 2, AR061: 1	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770,

									600045, 600319, 600528, 601884
HVVBE07	1056801	847	645 - 983	3022	Tyr-47 to Arg-58.		S0053: 3, H0551: 2, S0418: 1, S0046: 1, H0486: 1, H0355: 1, L0771: 1, H0672: 1, S0206: 1, L0605: 1 and S0276: 1.		
HKAHB85	1056804	848	1 - 831	3023	Val-212 to Phe-223.		L0731: 9, H0617: 7, L0769: 7, L0809: 6, L0806: 5, S0328: 5, L0745: 4, L0764: 3, L0754: 3, H0624: 2, S0360: 2, H0550: 2, H0333: 2, H0086: 2, H0011: 2, H0266: 2, H0615: 2, H0424: 2, H0494: 2, L0770: 2, L0794: 2, L0649: 2, L0803: 2, L0804: 2, L0774: 2, L0493: 2, L0666: 2, H0658: 2, L0742: 2, L0743: 2, L0747: 2, L0755: 2, L0757: 2, L0591: 2, L0593: 2, L0697: 2, S0424: 2, H0170: 1, H0556: 1, H0294: 1,	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843

				H0341: 1, H0484: 1, H0483: 1, S0358: 1, S0376: 1, S0007: 1, H0370: 1, H0013: 1, H0706: 1, H0618: 1, H0253: 1, H0052: 1, H0085: 1, H0545: 1, H0012: 1, H0620: 1, H0024: 1, S0051: 1, H0687: 1; H0213: 1, H0031: 1, H0553: 1, H0181: 1, L0455: 1, H0334: 1, H0509: 1, L0772: 1, L0800: 1, L0768: 1, L0766: 1, L0805: 1, L0653: 1, L0776: 1, L0807: 1, L0658: 1, L0512: 1, L0659: 1, L0526: 1, L0783: 1, L0368: 1, L0789: 1, L0790: 1, L0665: 1, H0690: 1, H0435: 1, H0660: 1, H0539: 1, S0152: 1, H0521: 1, S0406: 1, L0751: 1, L0750: 1, L0779: 1, L0780: 1, L0752: 1, L0758: 1, L0587: 1, L0592: 1, L0599: 1 and L0603: 1.
--	--	--	--	---

HUSXA15	1056810	849	303 - 1	3024	S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5, L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2,	2q33-q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 213700, 262000, 600258, 601277, 601318
---------	---------	-----	---------	------	--	----------	--

			S0378: 2, S0380: 2, S0406: 2, L0439: 2, L0759: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0664: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1, H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0644: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1,					
--	--	--	--	--	--	--	--	--

HNOCH54	1056839	850	1 - 1953	3025	Pro-8 to Glu-16, Lys-29 to Gly-34, Gly-85 to Glu-92, Lys-165 to Glu-172, Glu-180 to Ser-186, Ser-210 to Arg-215, Glu-278 to Gln-288, Lys-377 to Glu-383, Lys-405 to Gly-410, Lys-468 to Glu-474, Asn-483 to Arg-488, Gln-496 to Glu-502, Val-555 to Gly-561, Glu-611 to Pro-623, Lys-631 to Trp-638, Phe-641 to Gly-649.			H0696: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, L0779: 1, L0755: 1, H0445: 1, S0436: 1, L0597: 1, L0599: 1, H0542: 1 and S0384: 1.		
HOCPP16	1056856	851	1039 - 392	3026	Gly-20 to Tyr-30, Asn-40 to Glu-46, Ser-66 to Gly-75, Lys-85 to Gly-97, Glu-104 to Arg-115, Pro-135 to Pro-140, Pro-150 to Asn-159,			S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5.		

					Leu-167 to Glu-173, Ile-191 to Glu-196, Val-210 to Gln-216.	L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2, S0378: 2, S0406: 2, L0439: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0664: 1, S0420: 1,		
--	--	--	--	--	---	--	--	--

HNOAH83	1056862	852	3 - 848	3027	Val-2 to Val-7.	S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1, H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1, S0380: 1, H0696: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0597: 1, L0599: 1, H0542: 1 and S0384: 1.	H0617: 18, H0545: 12, 11p15.5	125852,
---------	---------	-----	---------	------	-----------------	--	-------------------------------	---------

				L0439: 11, L0743: 10, L0751: 10, H0295: 8, L0757: 8, S0212: 7, S0360: 7, L0662: 7, H0551: 6, H0494: 6, S0027: 6, L0779: 6, H0550: 5, H0575: 5, H0253: 5, H0039: 5, L0659: 5, H0521: 5, L0747: 5, S0408: 4, S0046: 4, H0427: 4, H0599: 4, H0546: 4, H0014: 4, L0764: 4, L0774: 4, L0438: 4, S0126: 4, H0672: 4, L0731: 4, S0434: 4, H0255: 3, H0662: 3, S0354: 3, S0358: 3, S0045: 3, H0370: 3, S0280: 3, H0309: 3, H0046: 3, H0266: 3, H0412: 3, H0413: 3, S0440: 3, H0509: 3, L0769: 3, L0775: 3, L0666: 3, H0520: 3, S0330: 3, H0539: 3, L0744: 3, L0777: 3, S0011: 3, S0192: 3, H0484: 2, H0661: 2, S0420: 2, S0356: 2,				126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
--	--	--	--	---	--	--	--	--

				S0376: 2, S0410: 2, H0580: 2, S0007: 2, H0208: 2, S0132: 2, S0278: 2, H0549: 2, H0592: 2, H0486: 2, H0706: 2, H0590: 2, S0474: 2, H0251: 2, H0204: 2, H0544: 2, L0163: 2, H0188: 2, H0687: 2, H0622: 2, H0040: 2, H0560: 2, S0142: 2, S0210: 2, L0637: 2, L0768: 2, L0651: 2, L0527: 2, L0782: 2, L0783: 2, L0528: 2, L0663: 2, S0374: 2, H0547: 2, H0651: 2, L0602: 2, H0522: 2, H0555: 2, L0740: 2, L0754: 2, L0758: 2, S0196: 2, H0542: 2, H0624: 1, H0265: 1, S0040: 1, S0342: 1, H0713: 1, H0294: 1, H0583: 1, S0180: 1, S0001: 1, H0663: 1, H0664: 1, S0418: 1, S0444: 1, H0675: 1, H0619: 1, H0392: 1, T0104: 1,
--	--	--	--	--

	H0587: 1, H0333: 1, H0559: 1, L0623: 1, T0040: 1, H0013: 1, H0069: 1, H0108: 1, H0036: 1, H0196: 1, H0052: 1, H0085: 1, H0205: 1, H0150: 1, H0041: 1, H0009: 1, H0123: 1, H0012: 1, H0023: 1, H0024: 1, S0388: 1, S0051: 1, H0510: 1, H0594: 1, H0284: 1, H0286: 1, S0250: 1, H0688: 1, H0428: 1, T0023: 1, H0213: 1, H0030: 1, H0553: 1, L0142: 1, H0628: 1, H0181: 1, H0606: 1, H0674: 1, S0364: 1, H0135: 1, H0372: 1, H0087: 1, H0264: 1, H0269: 1, H0623: 1, H0059: 1, L0564: 1, H0625: 1, H0633: 1, H0646: 1, H0529: 1, L0770: 1, L3904: 1, L0772: 1, L0372: 1, L0800: 1, L0773: 1, L0533: 1, L0375: 1, L0376: 1,	
--	--	--

HE2OU10	1056875	853	79 - 480	3028	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	L0806: 1, L0654: 1, L0629: 1, L0657: 1, L0656: 1, L0809: 1, L0647: 1, L0790: 1, L0665: 1, H0593: 1, H0689: 1, H0690: 1, H0435: 1, H0670: 1, S0328: 1, S0378: 1, S0380: 1, H0696: 1, S0406: 1, H0478: 1, H0631: 1, S3012: 1, S0028: 1, S0206: 1, L0750: 1, L0755: 1, L0759: 1, L0596: 1, L0597: 1, S0026: 1, H0665: 1, H0543: 1 and S0424: 1.	22q13.2- q13.31	188826, 250100, 250800, 250800
---------	---------	-----	----------	------	---	--	--------------------	---

								S0144: 1, S0002: 1, L0775: 1, H0691: 1, H0659: 1, H0648: 1, S0350: 1, S3012: 1, L0748: 1, L0740: 1, L0754: 1, L0747: 1, L0750: 1, L0753: 1, L0755: 1, L0758: 1 and S0276: 1.			
HODGM46	1056927	854	884 - 738	3029	Ser-13 to His-19, Gly-41 to Arg-49.			H0615: 3			
HODFR44	1056990	855	2 - 469	3030	Arg-17 to Lys-33.			AR055: 28, AR053: 28, AR033: 26, AR052: 22, AR089: 20, AR061: 13, AR060: 13, AR039: 11, AR096: 10, AR104: 5 L0751: 4, L0439: 3, L0777: 3, L0779: 2, L0758: 2, H0650: 1, H0328: 1, H0615: 1, L0435: 1, L0769: 1, L0649: 1, L0650: 1, L0774: 1, L0376: 1, L0789: 1 and H0343: 1.			
HCHND12	1057009	856	100 - 333	3031	Arg-27 to Trp-35.			H0664: 9, H0370: 8, H0059: 8, H0483: 4, S0410: 4, L0751: 4, L0747: 4, L0750: 4, H0484: 3, L0664: 3,	17q11.2- 17q12	144200, 148066, 148066, 148067, 148067,	

L0749: 3, H0661: 2, S0418: 2, S0408: 2, H0246: 2, H0615: 2, H0617: 2, L0637: 2, L0766: 2, L0659: 2, L0783: 2, L0665: 2, S0374: 2, H0682: 2, H0666: 2, L0754: 2, L0759: 2, L0596: 2, H0506: 2, H0624: 1, S0114: 1, S0420: 1, S0354: 1, S0358: 1, S0376: 1, H0675: 1, S0222: 1, H0156: 1, H0590: 1, H0196: 1, L0040: 1, H0597: 1, H0457: 1, H0188: 1, H0688: 1, H0622: 1, H0424: 1, H0030: 1, H0553: 1, H0644: 1, H0673: 1, H0124: 1, S0440: 1, S0472: 1, H0647: 1, L0640: 1, L0772: 1, L0764: 1, L0765: 1, L0650: 1, L0375: 1, L0776: 1, L0792: 1, L0666: 1, H0690: 1, H0435: 1, H0670: 1, H0648: 1, S0404: 1, L0755: 1,	148069, 154275, 162200, 162200, 180240, 182138, 239100, 600119, 600119, 600881, 601363, 601687, 601954, 602403
--	---

HBHAC29	1057157	857	2 - 553	3032			L0731: 1, L0605: 1 and L0600: 1. S0051: 4, H0441: 3, S0036: 3, L0769: 3, L0438: 3, L0439: 3, H0687: 2, L0665: 2, S0031: 2, S6024: 1, S0029: 1, H0455: 1, H0052: 1, L0638: 1, L0639: 1, S0053: 1 and L0742: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
HTPFW87	1057170	858	2 - 2206	3033	Ala-65 to Gly-77, Leu-79 to Lys-85, Gln-95 to Asp-103, Gln-113 to Ser-119, Ser-230 to Gly-235, Lys-358 to Phe-368, Gln-397 to Thr-407, Pro-474 to Val-484, Asn-494 to Asp-505, Glu-513 to Gly-521, Ser-532 to Arg-539, Thr-557 to Thr-562, Pro-566 to Glu-571, Pro-577 to Glu-582.		H0622: 42, S0380: 10, S0368: 3, H0040: 1, H0519: 1 and S0378: 1.		
HISAF60	1057212	859	2 - 988	3034	Arg-8 to Pro-18, Asp-76 to Arg-83, Glu-85 to Thr-94, Arg-139 to Ile-145,		AR039: 13, AR033: 12, AR104: 11, AR053: 10, AR055: 9, AR052: 9, AR089: 9, AR096:		

Gln-180 to Asp-196, Thr-201 to Ser-213, Lys-230 to Gln-235, Asn-293 to Gly-309, Thr-315 to Phe-321.	8, AR060: 5, AR061: 3 L0731: 12, L0747: 9, H0651: 5, L0759: 5, H0644: 4, H0013: 3, L0748: 3, L0439: 3, L0779: 3, H0575: 2, H0052: 2, H0327: 2, H0050: 2, H0083: 2, L0769: 2, L0662: 2, L0438: 2, H0539: 2, L0743: 2, L0750: 2, L0588: 2, H0716: 1, L0002: 1, L0443: 1, S0001: 1, S0360: 1, H0645: 1, H0411: 1, H0587: 1, H0333: 1, H0486: 1, S0010: 1, S0050: 1, H0051: 1, H0428: 1, H0553: 1, H0032: 1, L0455: 1, S0036: 1, H0038: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, L0770: 1, L0637: 1, L0766: 1, L0649: 1, L0774: 1, L0776: 1, L0655: 1, L0659: 1, L0783: 1, L0529: 1, L5623: 1, L0790: 1,
---	---

								L0791: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, H0696: 1, S3014: 1, L0741: 1, L0744: 1, L0757: 1, L0608: 1 and S0398: 1.			
HRABO80	1057219	860	1521 - 1937	3035	Ala-1 to Ser-7, Gln-108 to Ser-117.			L0743: 4, L0751: 4, H0252: 3, L0659: 3, H0586: 2, H0135: 2, H0038: 2, L0438: 2, H0670: 2, L0779: 2, H0624: 1, S0430: 1, S0222: 1, H0052: 1, L0471: 1, T0010: 1, H0428: 1, H0616: 1, T0067: 1, L0564: 1, H0646: 1, L0662: 1, L0774: 1, L0783: 1, H0144: 1, S0126: 1, H0660: 1, H0651: 1, H0555: 1, L0749: 1, L0750: 1, L0752: 1, L0758: 1 and S0194: 1.			
HADDF30	1057260	861	1 - 1155	3036	Arg-49 to Leu-55, Arg-61 to Cys-69, Arg-87 to Arg-102, Asn-119 to Lys-125, Cys-132 to Met-151, Ser-157 to Glu-164,			L0777: 3, L0803: 2, L0774: 2, L0602: 2, L0596: 2, L0588: 2, S0376: 1, H0431: 1, H0427: 1, H0266: 1, H0328: 1, H0615: 1,	3q24-q28	106165, 117700, 117700, 165500, 169600, 180380,	

					Asn-187 to Glu-210, Glu-235 to Thr-243, Lys-245 to Val-251, His-256 to Ser-268, Ser-277 to Ser-288, Leu-303 to Glu-317, Glu-328 to Gln-341, Ser-350 to Leu-355, Ser-357 to Asn-364.				180380, 180380, 276902, 600700, 601199, 601199, 601199, 601682
HDAAS58	1057272	862	245 - 460	3037	Asn-37 to Arg-45.	AR096: 4, AR089: 2, AR033: 2, AR060: 1, AR053: 1, AR055: 1, AR061: 1, AR104: 1, AR039: 0, AR052: 0 H0052: 4, L0768: 3, L0766: 3, L0438: 3, L0748: 3, L0750: 3, H0657: 2, H0341: 2, H0484: 2, T0042: 2, L0665: 2, H0658: 2, L0743: 2, L0744: 2, L0756: 2, L0777: 2, H0556: 1, H0656: 1, S0420: 1, H0393: 1, L0717: 1, S0222: 1, H0497: 1, H0486: 1, H0013: 1, H0263: 1, N0006: 1, L0579: 1, H0620: 1, L0163: 1, H0594: 1, H0267: 1,			

								H0615: 1, H0688: 1, H0494: 1, H0538: 1, L0769: 1, L0772: 1, L0643: 1, L0794: 1, L0649: 1, L0804: 1, L0774: 1, L0375: 1, L0776: 1, L0789: 1, L0792: 1, L0666: 1, H0144: 1, H0520: 1, H0711: 1, H0690: 1, L0439: 1, L0754: 1, L0745: 1, L0747: 1, L0786: 1, L0780: 1, L0752: 1, H0542: 1 and H0352: 1.			
HSDZG15	1057307	863	3 - 737	3038	Thr-92 to Gln-106, Val-222 to Val-227, Glu-229 to Asp-245.			H0556: 1, H0455: 1 and H0660: 1.			
HPDVY52	1057393	864	3 - 1391	3039				H0550: 3, L0751: 3, S0356: 2, H0024: 2, H0014: 2, H0059: 2, H0689: 2, H0690: 2, H0661: 1, H0645: 1, H0549: 1, H0052: 1, H0172: 1, H0123: 1, H0081: 1, H0266: 1, H0288: 1, H0553: 1, H0135: 1, H0494: 1, H0646: 1, L0649: 1, H0593: 1, H0682: 1,	20q13.2- q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235	

									H0658: 1, H0672: 1, H0555: 1, L0439: 1, L0747: 1, S0276: 1 and H0506: 1.			
HHESW02	1057478	865	2 - 1252	3040				Arg-20 to Gly-28, Glu-41 to Asn-55, Asp-62 to Thr-74, Glu-105 to Thr-118, Ala-144 to Ser-158, Gln-200 to Glu-205, Cys-212 to Gly-217, Pro-231 to Phe-238, Gln-259 to Glu-264, Glu-282 to Tyr-288, Lys-300 to Asn-305, His-351 to Thr-358, Arg-399 to Cys-407.	H0556: 7, H0543: 7, H0265: 3, S0278: 3, S0002: 3, H0445: 3, H0657: 2, H0663: 2, H0580: 2, S0003: 2, H0090: 2, S0144: 2, S0152: 2, S0206: 2, H0542: 2, H0656: 1, H0125: 1, H0351: 1, H0575: 1, S0182: 1, H0023: 1, H0373: 1, H0375: 1, H0591: 1, H0040: 1, H0264: 1, T0041: 1, T0042: 1, S0142: 1, H0521: 1, H0214: 1, H0436: 1, L0750: 1, L0757: 1, S0242: 1, H0423: 1 and H0422: 1.			
HVVBW84	1057561	866	327 - 1625	3041				Cys-24 to Gly-35, Ala-42 to Glu-47, Gln-181 to Asp-188, Val-264 to Pro-270, Asn-289 to Gly-294, Leu-325 to Tyr-330, Gly-353 to Leu-360,	L0751: 19, L0659: 9, H0550: 8, H0545: 6, S0360: 5, H0620: 5, H0309: 4, H0050: 4, H0135: 4, L0754: 4, L0747: 4, L0731: 4, H0170: 3, H0253: 3,			

					Asn-379 to Asp-388.	H0024: 3, H0687: 3, H0124: 3, L0375: 3, H0144: 3, H0672: 3, S0196: 3, H0619: 2, H0586: 2, H0427: 2, H0546: 2, H0622: 2, H0628: 2, H0087: 2, H0100: 2, L0764: 2, L0519: 2, L0664: 2, S0028: 2, L0439: 2, L0758: 2, L0759: 2, H0343: 2, S0192: 2, S0212: 1, H0663: 1, H0662: 1, S0356: 1, H0208: 1, S0300: 1, H0549: 1, S0222: 1, H0392: 1, H0592: 1, H0618: 1, H0196: 1, H0052: 1, H0251: 1, H0232: 1, H0544: 1, H0041: 1, H0188: 1, S0250: 1, L0053: 1, H0031: 1, H0553: 1, H0644: 1, H0674: 1, H0163: 1, H0090: 1, H0477: 1, L0770: 1, L0644: 1, L0648: 1, L0662: 1, L0806: 1, L0776: 1, L0542: 1, L0546: 1, L0783: 1,		
--	--	--	--	--	---------------------	--	--	--

HEAAC39	1057603	867	1365 - 1511	3042	Arg-12 to Gln-25, Gly-31 to Gly-38.	L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0684: 1, H0651: 1, S0044: 1, L0744: 1, L0584: 1, L0485: 1, L0361: 1, S0194: 1 and H0008: 1. AR039: 5, AR053: 5, AR089: 4, AR060: 3, AR061: 3, AR055: 2, AR096: 1, AR033: 1, AR104: 0 L0747: 4, L0777: 3, L0657: 2, L0759: 2, L0811: 1, H0369: 1, L0021: 1, S0346: 1, H0009: 1, L0637: 1, L0772: 1, L0375: 1, L0783: 1, L0809: 1, H0659: 1, H0660: 1, L0731: 1 and L0758: 1.	L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0684: 1, H0651: 1, S0044: 1, L0744: 1, L0584: 1, L0485: 1, L0361: 1, S0194: 1 and H0008: 1. AR039: 5, AR053: 5, AR089: 4, AR060: 3, AR061: 3, AR055: 2, AR096: 1, AR033: 1, AR104: 0 L0747: 4, L0777: 3, L0657: 2, L0759: 2, L0811: 1, H0369: 1, L0021: 1, S0346: 1, H0009: 1, L0637: 1, L0772: 1, L0375: 1, L0783: 1, L0809: 1, H0659: 1, H0660: 1, L0731: 1 and L0758: 1.		
HSLJC80	1057797	868	143 - 1945	3043	His-12 to Ala-26, Ser-70 to Glu-78, Pro-87 to Pro-94.	AR055: 5, AR060: 5, AR061: 5, AR052: 4, AR033: 4, AR089: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0550: 9, H0651: 6, S0358: 5, L0659: 5, H0549: 3, H0586: 3, L0662: 3, L0794: 3,	AR055: 5, AR060: 5, AR061: 5, AR052: 4, AR033: 4, AR089: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0550: 9, H0651: 6, S0358: 5, L0659: 5, H0549: 3, H0586: 3, L0662: 3, L0794: 3,		

						L0777: 3, H0575: 2, L0649: 2, L0744: 2, L0756: 2, L0758: 2, H0739: 1, H0716: 1, H0662: 1, H0587: 1, H0706: 1, H0050: 1, H0018: 1, H0200: 1, H0188: 1, H0687: 1, H0644: 1, H0628: 1, H0163: 1, H0100: 1, L0770: 1, L0809: 1, L0788: 1, L0663: 1, H0696: 1, S0406: 1, S0390: 1 and L0749: 1.			
HEOAD12	1057842	869	332 - 934	3044		AR052: 10, AR096: 6, AR053: 4, AR033: 4, AR089: 4, AR039: 4, AR060: 4, AR104: 3, AR055: 3, AR061: 2 L0659: 11, L0665: 11, L0666: 9, L0752: 9, L0731: 9, H0623: 7, L0663: 7, H0658: 7, L0743: 7, L0750: 7, L0662: 6, L0758: 6, L0759: 6, S0045: 5, S0046: 5, H0412: 5, L0776: 5, L0655: 5, L0779: 5, H0437: 4, H0457: 4, L0747: 4,			

				H0422: 4, L0005: 3, S0376: 3, H0411: 3, S0222: 3, H0266: 3, H0553: 3, H0056: 3, L0667: 3, L0764: 3, L0794: 3, L0803: 3, H0436: 3, L0588: 3, L0599: 3, H0543: 3, H0624: 2, H0657: 2, S0116: 2, H0580: 2, H0013: 2, H0439: 2, L0471: 2, L0483: 2, H0413: 2, S0344: 2, L0598: 2, L0763: 2, L0771: 2, L0775: 2, L0809: 2, S0374: 2, H0670: 2, H0648: 2, S0328: 2, S0330: 2, S0136: 2, H0696: 2, S0404: 2, S0028: 2, L0751: 2, L0745: 2, L0755: 2, H0170: 1, H0171: 1, H0583: 1, H0662: 1, H0402: 1, S0442: 1, S0444: 1, S0360: 1, H0722: 1, S0300: 1, H0351: 1, S0278: 1, H0431: 1, H0592: 1, H0333: 1, H0486: 1, H0635: 1,	
--	--	--	--	--	--

HVVBT41	1057880	870	214 - 1272	3045	Leu-1 to Lys-7, Arg-27 to Glu-33, Ala-43 to Gly-66, Ser-78 to Ser-84, Gly-111 to Val-118.		H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0434: 1, H0251: 1, H0150: 1, H0024: 1, H0594: 1, H0179: 1, H0687: 1, H0119: 1, H0644: 1, H0628: 1, S0036: 1, H0038: 1, H0634: 1, T0067: 1, H0433: 1, H0269: 1, H0100: 1, L0065: 1, L0369: 1, L0770: 1, L0648: 1, L0521: 1, L0766: 1, L0804: 1, L0650: 1, L0651: 1, L0632: 1, L0806: 1, L0517: 1, L0518: 1, L0783: 1, L0647: 1, L0664: 1, H0693: 1, H0547: 1, H0659: 1, S0380: 1, H0710: 1, S0190: 1, H0727: 1, L0754: 1, L0756: 1, L0592: 1, H0667: 1, H0136: 1 and S0276: 1.		
---------	---------	-----	------------	------	---	--	--	--	--

HAZAE42	1057915	871	3 - 659	3046	<p>Glu-140 to Lys-145, Lys-163 to Asp-168, Lys-189 to Phe-197, Arg-257 to Leu-264, Gln-285 to Asp-292, Gly-298 to Ala-308, Arg-314 to Glu-323, Gly-329 to Gly-338, Ser-343 to Leu-353.</p> <p>Pro-8 to Gly-18, Pro-57 to Ser-67, Lys-183 to Trp-191.</p>	<p>L0768: 7, L0750: 6, L0783: 5, H0687: 4, H0428: 4, L0770: 4, H0672: 4, H0031: 3, L0767: 3, L0776: 3, L0665: 3, H0539: 3, L0749: 3, L0755: 3, L0731: 3, L0759: 3, L0608: 3, H0333: 2, H0046: 2, H0009: 2, T0006: 2, H0644: 2, H0059: 2, L0386: 2, L0805: 2, L0809: 2, H0547: 2, L0742: 2, L0747: 2, L0779: 2, L0752: 2, H0624: 1, H0686: 1, H0656: 1, L0778: 1, H0662: 1, H0393: 1, H0369: 1, H0550: 1, H0441: 1, H0574: 1, H0632: 1,</p>		
---------	---------	-----	---------	------	--	--	--	--

						H0421: 1, H0544: 1, H0123: 1, L0471: 1, H0012: 1, H0356: 1, H0213: 1, H0087: 1, T0069: 1, H0100: 1, H0494: 1, H0509: 1, H0646: 1, S0210: 1, L0520: 1, L0625: 1, L0763: 1, L0371: 1, L0764: 1, L0794: 1, L0774: 1, L0633: 1, L0655: 1, L0807: 1, L0537: 1, H0144: 1, H0691: 1, H0520: 1, H0690: 1, H0670: 1, S0328: 1, S0378: 1, S0380: 1, L0777: 1, L0780: 1, L0753: 1, L0758: 1 and L0697: 1.			
HPRBN60	1057948	872	3 - 1019	3047	Phe-1 to Cys-8, Ala-10 to Gly-23, Gln-114 to Lys-120, Glu-129 to Phe-135, Ile-155 to Gln-160, Ser-193 to Thr-199, Asp-214 to Gly-226, Asp-236 to Gly-245, Ala-283 to Arg-288, Ala-322 to Asp-331.	L0439: 9, H0550: 6, S0366: 6, S0364: 4, H0644: 3, S0358: 2, H0549: 2, H0645: 1, S0222: 1, H0370: 1, H0050: 1, L0471: 1, S0362: 1, H0039: 1, H0032: 1, H0212: 1, H0379: 1, L0438: 1 and S0044: 1.	4q35	158900, 229000, 264900	
HOVCZ68	1057958	873	1 - 987	3048	Arg-20 to Arg-26, H0574: 5, S0126: 4,				

					Ser-47 to Thr-59, Val-83 to Cys-91, Asn-94 to Arg-100, Asp-120 to Asn-126, Cys-135 to Glu-140, Gln-146 to Cys-153, Pro-184 to Gln-189, Lys-246 to Cys-252, Cys-259 to Asp-265, Ile-304 to Tyr-319.	L0748: 4, L0777: 4, L0759: 4, T0039: 3, H0428: 3, H0644: 3, S0194: 3, H0393: 2, H0331: 2, H0632: 2, L0021: 2, L0632: 2, L0805: 2, L0776: 2, H0436: 2, L0779: 2, H0171: 1, H0685: 1, H0661: 1, S0132: 1, H0333: 1, H0013: 1, H0546: 1, H0011: 1, H0024: 1, S0250: 1, H0038: 1, H0551: 1, T0067: 1, H0494: 1, S0210: 1, L0761: 1, L0794: 1, L0517: 1, L0790: 1, L0791: 1, L0665: 1, H0144: 1, H0689: 1, S0152: 1, L0747: 1, H0653: 1, S0192: 1, S0276: 1 and S0196: 1.			
H6EDF71	1057979	874	2 - 1120	3049	Asp-17 to Gly-23, Lys-89 to Asp-94, Lys-129 to Asp-134, Leu-195 to Glu-204.	L0777: 6, L0666: 3, H0648: 3, H0672: 3, L0747: 3, H0685: 2, S0376: 2, H0553: 2, S0440: 2, H0529: 2, L0775: 2, L0788: 2, L0665: 2, S0152: 2,	3q13.1- q13.2	600467, 600882	

HCOOF60	1058001	875	1 - 855	3050	Gly-28 to Ser-36, Trp-38 to Pro-60, Pro-98 to Thr-104, Pro-113 to Tyr-118, Phe-133 to Gly-140, Pro-186 to Leu-192, Glu-239 to Gly-246, Pro-257 to Lys-269, Lys-273 to Lys-279.	L0599: 2, H0624: 1, H0265: 1, H0222: 1, H0713: 1, H0638: 1, S0354: 1, S0360: 1, S0408: 1, H0370: 1, H0559: 1, H0486: 1, H0581: 1, H0567: 1, H0083: 1, S0003: 1, H0674: 1, H0090: 1, L0475: 1, S0438: 1, S0002: 1, L0646: 1, L0521: 1, L0766: 1, L0651: 1, L0783: 1, L0663: 1, S0374: 1, H0519: 1, H0658: 1, H0696: 1, S0044: 1, S0406: 1, L0750: 1, L0755: 1, H0445: 1, L0366: 1, H0667: 1, S0276: 1, H0543: 1, H0423: 1 and H0506: 1.		
						L0499: 33, L0493: 25, L0514: 10, H0484: 8, H0620: 6, L0769: 6, S0418: 5, S0356: 5, L0766: 5, L0515: 5, L0747: 5, L0779: 5, H0543: 5, H0559: 4, H0618: 4, H0617: 4, H0087: 4, S0422: 4,		

				L0497: 4, L0509: 4, S0376: 3, H0546: 3, H0424: 3, H0551: 3, L0504: 3, H0686: 2, H0545: 2, H0571: 2, H0412: 2, L0507: 2, L0773: 2, L0512: 2, L0783: 2, S0126: 2, L0592: 2, H0136: 2, H0624: 1, H0170: 1, H0171: 1, H0556: 1, S0342: 1, H0341: 1, H0483: 1, H0663: 1, H0305: 1, H0638: 1, S0420: 1, S0444: 1, S0408: 1, H0438: 1, H0333: 1, H0257: 1, T0039: 1, T0109: 1, H0013: 1, H0253: 1, H0251: 1, H0544: 1, H0083: 1, H0288: 1, H0622: 1, H0213: 1, H0068: 1, H0163: 1, H0634: 1, H0616: 1, H0100: 1, T0041: 1, H0641: 1, L0763: 1, L0638: 1, L0639: 1, L0646: 1, L0644: 1, L0648: 1, L0662: 1, L0768: 1, L5564: 1,
--	--	--	--	--

<p> L0498: 1, L0806: 1, L0653: 1, L0655: 1, L0606: 1, L0629: 1, L0510: 1, L0511: 1, L0656: 1, L0665: 1, S0052: 1, H0690: 1, H0670: 1, S0328: 1, H0539: 1, S0152: 1, H0521: 1, S0406: 1, L0742: 1, L0748: 1, L0751: 1, L0731: 1, L0758: 1, S0436: 1, L0097: 1, H0542: 1, L0698: 1 and H0506: 1. </p>						
<p> H0547: 14, H0519: 13, L0803: 12, L0754: 12, H0543: 12, L0794: 10, H0423: 10, H0521: 9, L0748: 9, H0013: 8, L0805: 8, H0046: 7, H0266: 7, S0022: 7, L0439: 7, L0758: 7, L0599: 7, L0471: 6, L0666: 6, L0663: 6, L0731: 6, H0553: 5, H0040: 5, S0422: 5, S0002: 5, H0529: 5, L0659: 5, H0435: 5, S0152: 5, L0750: 5, L0752: 5, L0596: 5, </p>	<p> Glu-20 to Leu-35, Asp-48 to Gly-54. </p>	<p> 3051 </p>	<p> 3522 - 1090 </p>	<p> 876 </p>	<p> 1058059 </p>	<p> HVVBH81 </p>

L0591: 5, L0608: 5, H0170: 4, S0358: 4, S0360: 4, L0717: 4, S0222: 4, H0486: 4, H0318: 4, H0038: 4, H0494: 4, L0770: 4, L0761: 4, L0766: 4, L0804: 4, L0774: 4, L0809: 4, L0519: 4, S0406: 4, L0747: 4, H0445: 4, L0588: 4, H0717: 3, H0657: 3, S0212: 3, H0661: 3, H0580: 3, H0592: 3, H0587: 3, H0083: 3, H0428: 3, H0674: 3, H0560: 3, L0598: 3, L0369: 3, L0769: 3, L0646: 3, L0649: 3, L0776: 3, L0527: 3, L0790: 3, L0665: 3, H0144: 3, H0520: 3, S0380: 3, L0602: 3, H0522: 3, S0028: 3, L0740: 3, L0749: 3, L0756: 3, H0136: 3, H0506: 3, H0624: 2, H0171: 2, S6024: 2, H0583: 2, H0381: 2, H0662: 2, S0418: 2,						
--	--	--	--	--	--	--

	S0420: 2, S0356: 2, S0476: 2, H0619: 2, H0431: 2, H0333: 2, T0109: 2, H0075: 2, H0599: 2, H0581: 2, H0052: 2, N0006: 2, H0179: 2, T0023: 2, H0644: 2, H0412: 2, H0100: 2, H0561: 2, H0641: 2, S0144: 2, S0344: 2, H0538: 2, S0426: 2, L0500: 2, L0638: 2, L0372: 2, L0497: 2, L0650: 2, L0664: 2, L0438: 2, L0352: 2, S0126: 2, H0660: 2, H0648: 2, H0672: 2, H0436: 2, S3014: 2, L0786: 2, L0779: 2, L0755: 2, L0759: 2, L0362: 2, L0361: 2, L0601: 2, S0026: 2, H0667: 2, S0192: 2, H0542: 2, H0422: 2, L0600: 2, H0556: 1, T0002: 1, H0159: 1, S0114: 1, S0134: 1, H0650: 1, H0656: 1, S0116: 1, S0001: 1, H0484: 1,					
--	--	--	--	--	--	--

	H0589: 1, H0458: 1, H0459: 1, H0638: 1, L0005: 1, S0442: 1, S0376: 1, S0444: 1, S0408: 1, S0410: 1, H0489: 1, H0637: 1, S0007: 1, S0045: 1, S0046: 1, S0140: 1, L0476: 1, H0411: 1, S0278: 1, H0550: 1, H0441: 1, H0404: 1, H0600: 1, H0574: 1, H0485: 1, T0039: 1, T0040: 1, L0586: 1, H0069: 1, H0427: 1, S0280: 1, L0021: 1, H0098: 1, H0575: 1, H0004: 1, S0010: 1, S0346: 1, L0105: 1, S0474: 1, S0049: 1, H0251: 1, H0309: 1, T0115: 1, L0738: 1, H0530: 1, L0041: 1, H0009: 1, H0562: 1, H0172: 1, H0620: 1, H0199: 1, H0024: 1, H0057: 1, H0014: 1, H0051: 1, S0051: 1, H0355: 1, H0510: 1, S6028: 1, H0267: 1.	
--	--	--

[illegible]

HSPTJ51	1058172	877	3 - 1004	3052	Gly-6 to Gly-15, Pro-17 to Leu-22, Trp-25 to Leu-70, Asp-72 to Val-86, Asp-151 to Asn-170, Ala-183 to Gln-198, Pro-221 to Pro-227, Pro-236 to Gly-244, Pro-272 to Gly-281, Pro-304 to Asp-318.	H0697: 1, H0702: 1, H0699: 1, S0374: 1, H0723: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, H0670: 1, S0328: 1, H0539: 1, H0710: 1, H0696: 1, H0215: 1, H0631: 1, L0751: 1, L0777: 1, L0753: 1, L0757: 1, S0031: 1, S0260: 1, L0686: 1, H0707: 1, S0434: 1, S0436: 1, L0480: 1, L0589: 1, L0605: 1, L0595: 1 and S0011: 1.	3p23-p21	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373
---------	---------	-----	----------	------	---	---	----------	--

	H0169: 2, H0090: 2, H0413: 2, S0002: 2, L0372: 2, L0363: 2, L0768: 2, L0766: 2, S0374: 2, L0438: 2, H0547: 2, L0602: 2, L0743: 2, L0750: 2, L0780: 2, H0423: 2, H0422: 2, S0424: 2, H0265: 1, S0212: 1, S0444: 1, S0360: 1, H0733: 1, H0351: 1, H0270: 1, L0586: 1, H0635: 1, H0097: 1, H0421: 1, H0546: 1, H0399: 1, H0266: 1, H0615: 1, H0428: 1, H0553: 1, L0055: 1, H0673: 1, H0124: 1, H0708: 1, H0591: 1, H0040: 1, H0551: 1, H0488: 1, H0623: 1, H0561: 1, S0306: 1, S0438: 1, H0647: 1, S0344: 1, H0529: 1, L0506: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0646: 1, L0803: 1, L0375: 1, L0651: 1,	
--	--	--

HOPKC80	1058174	878	240 - 980	3053	Pro-1 to Ser-6, Pro-25 to Cys-31, Arg-142 to Lys-150, Pro-223 to Arg-232.	L0776: 1, L0659: 1, L0793: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0693: 1, H0520: 1, H0519: 1, H0682: 1, H0658: 1, H0670: 1, S0330: 1, S0380: 1, H0696: 1, S0146: 1, H0631: 1, H0345: 1, S0027: 1, L0744: 1, S0260: 1, H0445: 1, H0707: 1, L0595: 1, L0366: 1, S0011: 1, H0668: 1, H0543: 1, L0697: 1, S0398: 1, S0452: 1 and H0352: 1.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
---------	---------	-----	-----------	------	--	--	-------	--

HOCPT58	1058250	879	1 - 765	3054	Ala-3 to Val-8, Ser-97 to Leu-104, Asp-106 to Thr-113, Ala-124 to Ser-129, Pro-136 to Gly-152, Pro-156 to Leu-167, His-176 to His-182, Thr-188 to Ser-194, Pro-200 to Tyr-205, Arg-208 to Glu-214,	H0672: 2, S0392: 2, L0750: 2, L0752: 2, L0599: 2, H0295: 1, S0360: 1, S0410: 1, S0132: 1, H0549: 1, H0574: 1, L0021: 1, H0590: 1, H0085: 1, H0204: 1, H0150: 1, H0039: 1, H0617: 1, H0130: 1, L0764: 1, L0773: 1, L0648: 1, L0653: 1, L0657: 1, L0783: 1, L0383: 1, L0519: 1, L0791: 1, L0792: 1, L0663: 1, H0435: 1, H0659: 1, H0670: 1, H0696: 1, S0404: 1, S0406: 1, L0777: 1, L0759: 1 and S0434: 1.		
---------	---------	-----	---------	------	---	---	--	--

Arg-239 to Gly-245.	L0774: 2, H0660: 2, S0378: 2, S3014: 2, L0751: 2, L0749: 2, L0779: 2, L0758: 2, L0759: 2, H0295: 1, H0583: 1, S0212: 1, H0484: 1, H0255: 1, S0442: 1, S0358: 1, S0444: 1, S0360: 1, H0549: 1, H0333: 1, L0622: 1, H0486: 1, T0060: 1, H0427: 1, L0021: 1, H0194: 1, H0309: 1, H0546: 1, H0050: 1, L0471: 1, H0051: 1, S0388: 1, H0399: 1, H0375: 1, H0252: 1, H0428: 1, H0039: 1, H0553: 1, H0163: 1, H0616: 1, H0087: 1, H0494: 1, H0714: 1, S0438: 1, S0440: 1, H0633: 1, H0646: 1, S0144: 1, S0002: 1, S0426: 1, L0639: 1, L5566: 1, L0772: 1, L0648: 1, L0386: 1, L0650: 1, L0653: 1, L0655: 1, L0657: 1, L0659: 1,
---------------------	---

HPCTP25	1058287	880	3 - 1553	3055	Ser-89 to Met-94, Val-331 to Lys-339, Leu-344 to Met-350, Glu-386 to Tyr-394, Phe-480 to Gly-493.	L0789: 1, L0793: 1, L0664: 1, H0144: 1, H0593: 1, H0682: 1, H0670: 1, H0651: 1, S0330: 1, S0152: 1, H0521: 1, S0037: 1, S0027: 1, S0206: 1, L0743: 1, L0740: 1, L0747: 1, L0756: 1, H0595: 1 and H0653: 1.			
						H0707: 17, L0777: 14, L0803: 7, L0748: 6, S0002: 5, L0789: 5, S0126: 5, L0747: 5, L0750: 5, H0046: 4, S0412: 4, H0574: 3, S0010: 3, L0770: 3, L0666: 3, H0354: 2, H0510: 2, H0266: 2, H0644: 2, H0673: 2, H0494: 2, S0344: 2, S0426: 2, L0766: 2, L0776: 2, L0809: 2, H0659: 2, S0328: 2, H0539: 2, S0027: 2, S0028: 2, L0439: 2, L0779: 2, L0752: 2, L0731: 2, L0581: 2, L0601: 2, H0170: 1, S0342: 1, H0713: 1,	1q22-q23		104770, 107300, 107670, 110700, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 159440, 159440, 159440, 173610, 176310, 186780, 191030, 191315,

H0717: 1, S0114: 1, H0583: 1, S0212: 1, S0282: 1, H0661: 1, S0420: 1, S0358: 1, S0444: 1, S0408: 1, H0722: 1, S0046: 1, S0476: 1, H0431: 1, H0592: 1, H0587: 1, S0414: 1, T0114: 1, S0280: 1, H0156: 1, L0021: 1, L0105: 1, H0052: 1, H0050: 1, H0024: 1, H0014: 1, S0051: 1, H0083: 1, S6028: 1, H0292: 1, S0003: 1, H0328: 1, H0428: 1, H0032: 1, H0598: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0616: 1, S0038: 1, T0041: 1, T0042: 1, H0625: 1, H0561: 1, H0714: 1, S0438: 1, H0529: 1, L0769: 1, L0638: 1, L0667: 1, L0646: 1, L0764: 1, L0765: 1, L0662: 1, L0794: 1, L0649: 1, L0774: 1, L0805: 1, L0379: 1,	227400, 227400, 600923, 601412, 601652, 602491
--	---

HODKM52	1058305	881	13 - 999	3056	Arg-1 to Val-6.	L0656: 1, L0518: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0593: 1, H0689: 1, S0330: 1, S0004: 1, S0044: 1, H0694: 1, S0406: 1, H0478: 1, S3014: 1, S0032: 1, UNKWN: 1, L0749: 1, L0758: 1, S0031: 1, S0260: 1, L0608: 1 and H0667: 1.			
HCONB89	1058316	882	1 - 1302	3057		H0059: 6, H0370: 5, L0646: 2, L0754: 2, H0664: 1, S0376: 1, H0156: 1, H0615: 1, H0688: 1, H0030: 1, H0494: 1, L0764: 1, L0662: 1, L0664: 1, H0682: 1 and H0666: 1.	8p22-p21.3	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629	

HSABJ44	1058413	883	11 - 925	3058	<p>Gly-1 to Lys-10, Glu-29 to His-36, Gly-43 to Asn-63, Ala-74 to Leu-84, Leu-132 to Asn-142, Pro-189 to Pro-194, Asp-196 to Ser-209, Pro-252 to Gly-268, Thr-271 to Lys-278, Pro-292 to Gln-300.</p>	<p>L0777: 9, L0751: 8, H0046: 5, H0550: 4, L0665: 4, H0521: 4, L0750: 4, H0623: 3, H0435: 3, H0658: 3, S0436: 3, S0212: 2, H0580: 2, H0619: 2, T0039: 2, H0427: 2, H0266: 2, S0438: 2, L0772: 2, L0659: 2, L0666: 2, L0663: 2, S0374: 2, S0152: 2, H0696: 2, H0555: 2, L0749: 2, L0731: 2, L0758: 2, L0596: 2, L0599: 2, S0192: 2, H0685: 1, S0040: 1, H0717: 1, S0116: 1, H0483: 1, H0255: 1, H0661: 1, H0663: 1, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0728: 1, L0717: 1, H0586: 1, H0618: 1, H0318: 1, H0263: 1, H0544: 1, H0510: 1, H0290: 1, S0368: 1, H0424: 1, H0553: 1, H0606: 1, H0032: 1, H0316: 1, H0634: 1,</p>	12p13	<p>103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096</p>
---------	---------	-----	----------	------	---	--	-------	---

HBPND88	1058432	884	1 - 1128	3059	Ala-2 to Gly-8, Tyr-12 to Pro-26, Gly-102 to Asn-107, Ala-113 to Asp-122, Arg-130 to Val-135, Glu-142 to Lys-150, Asn-189 to Ala-195, Ala-221 to His-228, Gln-248 to Ser-260, Ser-272 to Gly-283, Leu-321 to Glu-329, Cys-336 to Gly-344,	H0551: 1, H0268: 1, H0494: 1, H0646: 1, S0426: 1, H0529: 1, L0501: 1, L0769: 1, L0646: 1, L0764: 1, L0773: 1, L0662: 1, L0649: 1, L0803: 1, L0375: 1, L0784: 1, L0776: 1, L0807: 1, L0783: 1, L0790: 1, H0693: 1, H0670: 1, H0672: 1, H0539: 1, S0350: 1, H0522: 1, S3014: 1, S0032: 1, L0748: 1, L0754: 1, L0780: 1, L0752: 1, H0595: 1, H0665: 1 and S0242: 1.				126090, 129010, 142600, 250850, 601386, 601493
---------	---------	-----	----------	------	--	---	--	--	--	---

Ala-358 to Gly-367.	L0806: 3, L0509: 3, L0776: 3, L0809: 3, L0666: 3, L0665: 3, S0328: 3, H0445: 3, L0596: 3, S0026: 3, L0600: 3, S0358: 2, S0376: 2, S0444: 2, H0083: 2, S0210: 2, L0761: 2, L0372: 2, L0764: 2, L0774: 2, L0654: 2, L0382: 2, H0435: 2, H0648: 2, L0759: 2, H0444: 2, L0608: 2, H0685: 1, L0785: 1, H0341: 1, S0212: 1, H0255: 1, H0661: 1, H0664: 1, H0662: 1, S0418: 1, S0420: 1, S0442: 1, S0408: 1, S0410: 1, H0393: 1, H0431: 1, H0392: 1, H0331: 1, L0622: 1, T0114: 1, T0109: 1, H0427: 1, L0021: 1, T0082: 1, H0530: 1, H0546: 1, H0545: 1, S0051: 1, H0030: 1, H0031: 1, H0032: 1, H0169: 1, H0674: 1, H0212: 1,
---------------------	--

H6EEO05	1058438	885	67 - 1527	3060	Arg-29 to Ser-35, Ser-79 to Gly-91, Pro-105 to Arg-120, Thr-168 to Glu-175, Phe-187 to Ala-200, Arg-272 to Lys-282,	S0364: 1, H0040: 1, H0087: 1, T0067: 1, H0412: 1, H0413: 1, H0102: 1, H0494: 1, S0440: 1, S0422: 1, L0762: 1, L0640: 1, L0770: 1, L0638: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0363: 1, L0364: 1, L0381: 1, L0388: 1, L0803: 1, L0804: 1, L0775: 1, L0512: 1, L0383: 1, S0374: 1, H0691: 1, H0547: 1, H0519: 1, H0690: 1, H0658: 1, H0696: 1, S0037: 1, S0206: 1, L0745: 1, L0752: 1, L0758: 1, S0434: 1, L0592: 1, L0594: 1, L0595: 1, L0362: 1, L0603: 1, L0097: 1 and S0384: 1.	S0364: 1, H0040: 1, H0087: 1, T0067: 1, H0412: 1, H0413: 1, H0102: 1, H0494: 1, S0440: 1, S0422: 1, L0762: 1, L0640: 1, L0770: 1, L0638: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0363: 1, L0364: 1, L0381: 1, L0388: 1, L0803: 1, L0804: 1, L0775: 1, L0512: 1, L0383: 1, S0374: 1, H0691: 1, H0547: 1, H0519: 1, H0690: 1, H0658: 1, H0696: 1, S0037: 1, S0206: 1, L0745: 1, L0752: 1, L0758: 1, S0434: 1, L0592: 1, L0594: 1, L0595: 1, L0362: 1, L0603: 1, L0097: 1 and S0384: 1.	10
---------	---------	-----	-----------	------	--	---	---	----

						Arg-325 to Asp-330, L0751: 3, L0750: 3, Arg-332 to Phe-338, S0358: 2, H0431: 2, Arg-358 to Lys-368, H0622: 2, L0637: 2, Cys-433 to Asn-441, L0375: 2, L0776: 2, Leu-456 to Asp-461, L0666: 2, H0648: 2, H0672: 2, S3014: 2, L0741: 2, L0740: 2, L0731: 2, T0002: 1, S0040: 1, S6024: 1, S0116: 1, H0664: 1, S0418: 1, S0360: 1, S0046: 1, L0717: 1, S6016: 1, H0331: 1, H0632: 1, H0559: 1, H0486: 1, H0013: 1, S0010: 1, H0318: 1, S0049: 1, H0434: 1, L0041: 1, L0471: 1, S0362: 1, H0051: 1, S0388: 1, S6028: 1, H0266: 1, H0687: 1, H0615: 1, S0364: 1, H0551: 1, H0272: 1, S0038: 1, H0100: 1, L0351: 1, H0560: 1, S0438: 1, H0509: 1, H0652: 1, S0142: 1, S0344: 1, S0426: 1, L0769: 1, L0638: 1, L0667: 1, L0373: 1,				
--	--	--	--	--	--	--	--	--	--	--

HFIVR61	1058451	886	157 - 777	3061	Pro-27 to Lys-32, Pro-37 to Ser-44, Glu-46 to Gln-51, Arg-63 to Asn-71, Gln-125 to Ala-135, Gln-150 to Asn-155.	L0372: 1, L0764: 1, L0771: 1, L0648: 1, L0521: 1, L0363: 1, L0803: 1, L0650: 1, L0775: 1, L0788: 1, L0664: 1, H0660: 1, L0743: 1, L0753: 1, L0480: 1, L0595: 1 and S0460: 1.			153880, 601622, 601649
---------	---------	-----	-----------	------	--	--	--	--	------------------------------

HVVBX28	1058458	887	2 - 493	3062			H0123: 1, H0200: 1, H0109: 1, H0615: 1, H0111: 1, S0015: 1, L0800: 1, L0644: 1, L0766: 1, L0804: 1, L0633: 1, S0126: 1 and L0780: 1.	21q22.1- q22.2	147450, 176261, 253270, 601399
							L0748: 13, L0731: 13, L0749: 7, L0744: 6, L0438: 5, L0740: 5, L0768: 3, L0747: 3, L0758: 3, S0360: 2, L0717: 2, S0022: 2, L0638: 2, H0547: 2, L0743: 2, L0439: 2, L0754: 2, L0604: 2, H0656: 1, H0013: 1, H0427: 1, H0098: 1, S0010: 1, H0014: 1, H0687: 1, H0163: 1, H0561: 1, H0509: 1, H0652: 1, H0538: 1, L0598: 1, L0770: 1, L0769: 1, L0637: 1, L0771: 1, L0363: 1, L0381: 1, L0375: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0144: 1, H0670: 1, H0672: 1, S0146: 1.		

						H0555: 1, L0750: 1, L0756: 1, L0777: 1, L0753: 1, L0755: 1, L0757: 1, L0759: 1, L0597: 1 and S0276: 1.			
HVVBI38	1058475	888	258 - 2291	3063	Pro-27 to Lys-35.	AR089: 2, AR096: 2, AR060: 1, AR053: 1, AR061: 1, AR033: 0, AR055: 0, AR104: 0, AR039: 0 S0358: 5, H0596: 2, H0059: 2, S0354: 1, H0263: 1, L0738: 1, L0639: 1, L0764: 1, L0767: 1, L0768: 1, L0659: 1, S0374: 1, H0660: 1, H0672: 1, S0380: 1 and L0731: 1.			
HUKEJ46	1058539	889	242 - 1165	3064					
HDTFT47	1058588	890	2 - 274	3065	Trp-1 to Glu-9, Thr-29 to Val-35, Arg-73 to Thr-79.	L0655: 10, L0664: 9, L0751: 8, H0521: 7, S0360: 5, H0486: 5, L0777: 4, H0657: 3, H0638: 3, H0087: 3, L0763: 3, L0743: 3, L0748: 3, L0599: 3, H0662: 2, H0637: 2, H0581: 2, H0090: 2, L0768: 2, L0651: 2, L0653: 2, L0659: 2,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261.	

[illegible]

HSSFS71	1058596	891	2 - 499	3066	Glu-42 to Leu-48, His-56 to Cys-62, Ala-107 to Pro-119.	H0555: 1, L0741: 1, L0744: 1, L0731: 1, H0595: 1 and H0543: 1. AR055: 18, AR033: 9, AR096: 5, AR104: 5, AR089: 4, AR060: 4, AR052: 2, AR039: 2, AR061: 2, AR053: 1 H0617: 22, H0424: 13, L0439: 12, H0618: 9, H0658: 9, L0751: 9, H0265: 8, L0666: 7, S0126: 7, S0046: 6, S0222: 6, H0031: 6, L0803: 6, L0731: 6, H0009: 5, L0769: 5, L0758: 5, S0420: 4, H0370: 4, L0163: 4, H0553: 4, H0135: 4, L0805: 4, L0657: 4, L0809: 4, L0779: 4, H0483: 3, H0150: 3, H0266: 3, L0663: 3, H0670: 3, L0755: 3, H0717: 2, L0415: 2, H0661: 2, S0444: 2, S0045: 2, H0549: 2, H0486: 2, H0156: 2, H0599: 2, S0049: 2, H0373: 2, T0010: 2.	14q32.3		
---------	---------	-----	---------	------	---	--	---------	--	--

H0622: 2, L0142: 2, H0181: 2, H0412: 2, H0623: 2, L0351: 2, L0640: 2, L0800: 2, L0648: 2, L0662: 2, L0794: 2, L0789: 2, L0664: 2, L0665: 2, L0438: 2, H0689: 2, H0555: 2, S3014: 2, L0741: 2, L0743: 2, L0754: 2, L0747: 2, H0170: 1, H0685: 1, S0040: 1, H0713: 1, H0716: 1, S6024: 1, H0656: 1, S0212: 1, H0484: 1, S0418: 1, S0358: 1, S0468: 1, S0132: 1, S0476: 1, L0717: 1, L0394: 1, H0550: 1, H0441: 1, H0431: 1, H0592: 1, H0587: 1, H0427: 1, L0021: 1, H0706: 1, H0004: 1, H0253: 1, T0048: 1, H0318: 1, H0581: 1, N0011: 1, H0196: 1, H0041: 1, H0563: 1, H0566: 1, H0050: 1, L0471: 1, H0024: 1, H0014: 1,
--

HSDJH63	1058612	892	153 - 1358	3067	Thr-17 to Lys-23, Lys-93 to Arg-98.	H0051: 1, S0051: 1, H0284: 1, H0428: 1, H0182: 1, H0606: 1, H0124: 1, H0616: 1, H0087: 1, H0056: 1, H0100: 1, L0370: 1, S0208: 1, L0369: 1, L0520: 1, L0763: 1, L0770: 1, L5575: 1, L5566: 1, L0804: 1, L0775: 1, L0776: 1, L0655: 1, L0383: 1, L0352: 1, H0690: 1, H0660: 1, S0328: 1, S0330: 1, H0696: 1, H0479: 1, H0627: 1, S0037: 1, L0744: 1, L0748: 1, L0777: 1, L0759: 1, H0445: 1, S0436: 1, L0608: 1, L0601: 1, S0242: 1 and H0352: 1.		
						AR039: 28, AR053: 20, AR055: 19, AR033: 17, AR052: 16, AR089: 15, AR104: 12, AR061: 12, AR096: 11, AR060: 11 H0615: 2, L0766: 2, S0114: 1, H0650: 1,		

HAHGD24	1058622	893	2 - 1027	3068	Pro-17 to Arg-25, Ala-61 to Trp-72, Gln-96 to Pro-111, Gln-210 to Pro-215.	H0657: 1, L0791: 1, H0689: 1, S0152: 1, S0260: 1 and H0445: 1. L0666: 3, L0657: 2, H0689: 2, H0555: 2, L0751: 2, S0001: 1, S0360: 1, H0675: 1, S0132: 1, H0549: 1, S0222: 1, H0333: 1, T0114: 1, H0599: 1, L0022: 1, H0594: 1, H0688: 1, S0364: 1, H0100: 1, H0561: 1, S0382: 1, L0637: 1, L0761: 1, L0649: 1, L0788: 1, L0789: 1, L0665: 1, H0547: 1, H0690: 1, H0658: 1, H0660: 1, H0672: 1, H0539: 1, H0696: 1, L0743: 1, L0754: 1 and L0780: 1.			
HTAEV85	1058723	894	426 - 238	3069		H0052: 20, H0264: 5, H0194: 4, T0010: 4, H0435: 4, H0436: 4, H0543: 4, S0222: 3, L0439: 3, H0069: 2, H0618: 2, H0581: 2, H0012: 2, H0617: 2, H0087: 2, S0038: 2,			

								L0438: 2, H0689: 2, L0741: 2, H0423: 2, H0422: 2, H0265: 1, S0001: 1, S0282: 1, H0619: 1, H0250: 1, H0635: 1, H0156: 1, S0049: 1, H0597: 1, H0327: 1, S0388: 1, S0051: 1, H0271: 1, S0036: 1, H0135: 1, H0063: 1, H0116: 1, H0652: 1, L0652: 1, L0517: 1, H0539: 1, H0518: 1, L0758: 1, H0445: 1, L0592: 1 and L0366: 1.			
HPMME44	1058928	895	9 - 338	3070				H0265: 1, H0050: 1, H0644: 1, S0150: 1, H0521: 1, H0542: 1 and S0424: 1.			
HEEAZ17	1058949	896	2184 - 2426	3071				L0758: 7, L0666: 5, L0749: 4, L0779: 4, H0620: 3, L0540: 3, L0439: 3, L0750: 3, L0731: 3, L0759: 3, S0360: 2, L0763: 2, L0770: 2, L0803: 2, L0775: 2, L0805: 2, L0776: 2, L0665: 2, L0743: 2, L0747: 2,			

HSPSG28	1058977	897	474 - 1679	3072	Asp-33 to Arg-39, Ala-43 to Leu-48, Glu-256 to Gln-266, Gly-305 to Ile-311, Pro-314 to Ala-320, Gln-388 to Asn-394.	L0756: 2, S0040: 1, H0662: 1, S0045: 1, H0549: 1, H0550: 1, H0370: 1, T0060: 1, L0022: 1, H0615: 1, H0135: 1, H0488: 1, H0623: 1, H0059: 1, H0022: 1, L0520: 1, L0640: 1, L0769: 1, L0772: 1, L0662: 1, L0768: 1, L0766: 1, L0804: 1, L0774: 1, L0655: 1, L0809: 1, L4501: 1, L0663: 1, L0664: 1, H0144: 1, H0547: 1, S0330: 1, H0539: 1, H0696: 1, L0744: 1, L0748: 1, L0751: 1 and L0757: 1.	17q23-q25	106180, 114290, 138033, 138700, 139250, 150200, 154275, 162100, 170500, 170500, 170500,
---------	---------	-----	------------	------	--	--	-----------	---

L0752: 3, L0758: 3, L0362: 3, S0430: 2, H0341: 2, S0358: 2, S0474: 2, H0052: 2, H0046: 2, L0471: 2, H0356: 2, H0284: 2, H0553: 2, H0063: 2, H0646: 2, L0761: 2, L0768: 2, L0776: 2, L0657: 2, L0659: 2, L0664: 2, L0565: 2, H0520: 2, H0519: 2, H0689: 2, H0658: 2, H0521: 2, H0696: 2, S0044: 2, S0027: 2, L0747: 2, L0749: 2, L0591: 2, L0604: 2, H0423: 2, L0615: 1, H0685: 1, H0713: 1, H0483: 1, H0255: 1, H0663: 1, H0306: 1, S0420: 1, S0444: 1, H0580: 1, S0007: 1, H0393: 1, H0411: 1, S0278: 1, H0441: 1, H0392: 1, H0438: 1, H0586: 1, H0331: 1, T0109: 1, H0013: 1, H0427: 1, L0021: 1, H0575: 1, H0618: 1,	176960, 180860, 249000, 253250, 264470
--	--

	H0374: 1, H0251: 1, H0309: 1, H0544: 1, H0150: 1, H0024: 1, S6028: 1, H0266: 1, S0022: 1, H0039: 1, H0031: 1, H0644: 1, H0628: 1, H0181: 1, H0124: 1, H0090: 1, H0591: 1, H0040: 1, H0616: 1, H0087: 1, H0551: 1, H0413: 1, H0623: 1, S0038: 1, T0042: 1, H0494: 1, H0561: 1, H0366: 1, S0294: 1, S0438: 1, S0440: 1, H0130: 1, L0762: 1, L4497: 1, L0500: 1, L0770: 1, L0796: 1, L0372: 1, L0800: 1, L0764: 1, L0662: 1, L0363: 1, L0794: 1, L0803: 1, L0804: 1, L0650: 1, L0775: 1, L0375: 1, L0805: 1, L0655: 1, L0526: 1, L0383: 1, L0519: 1, L0793: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0691: 1, L0438: 1,	
--	--	--

HTGFW12	1059006	898	2 - 1450	3073	Gly-1 to Leu-6.	H0683: 1, H0435: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0152: 1, S0350: 1, H0522: 1, H0576: 1, L0612: 1, L0741: 1, L0748: 1, L0756: 1, S0434: 1, L0596: 1, L0599: 1, S0011: 1, H0668: 1, H0653: 1, H0667: 1, H0136: 1, S0192: 1, S0276: 1 and H0422: 1. AR060: 23, AR104: 21, AR089: 11, AR061: 8, AR096: 7, AR055: 6 L0803: 10, L0451: 8, S0250: 6, L0804: 6, L0731: 5, S0212: 4, H0431: 4, H0547: 4, L0439: 4, L0777: 4, S0360: 3, L0776: 3, L0592: 3, H0717: 2, S0116: 2, S0046: 2, H0004: 2, H0046: 2, L0471: 2, H0553: 2, H0090: 2, H0063: 2, L0638: 2, L0662: 2, L0774: 2, L0775: 2,		
---------	---------	-----	----------	------	-----------------	--	--	--

L0655: 2, L0659: 2, L0517: 2, L0809: 2, S0126: 2, S0152: 2, L0752: 2, H0170: 1, T0049: 1, S0218: 1, H0650: 1, H0661: 1, L0534: 1, L0562: 1, S0376: 1, H0619: 1, H0645: 1, H0411: 1, H0492: 1, H0069: 1, L0021: 1, H0042: 1, H0318: 1, H0581: 1, H0421: 1, H0251: 1, H0057: 1, H0266: 1, H0428: 1, H0039: 1, L0483: 1, H0031: 1, H0644: 1, H0135: 1, H0591: 1, H0040: 1, H0056: 1, S0038: 1, S0014: 1, H0560: 1, S0438: 1, H0538: 1, L0763: 1, L0769: 1, L3905: 1, L0772: 1, L0764: 1, L5574: 1, L0651: 1, L0789: 1, L0663: 1, H0144: 1, H0658: 1, H0672: 1, S0328: 1, S0406: 1, H0555: 1, S3012: 1, S0390: 1, L0748: 1,
--

HOFMT75	1059050	899	1 - 465	3074	Ala-18 to Gly-23.	L0750: 1, L0779: 1, L0780: 1, L0755: 1, L0758: 1, L0759: 1, S0260: 1, H0445: 1, S0434: 1, L0593: 1, S0192: 1, S0194: 1, H0423: 1, S0424: 1 and H0506: 1.	11p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071,
						AR039: 2, AR089: 1, AR060: 1, AR033: 1, AR096: 0, AR061: 0, AR053: 0, AR055: 0, AR104: 0 H0415: 1 and L0751: 1.		

								194071, 204500, 600856, 601680, 602631, 602631
HARNB17	1059085	900	241 - 501	3075	Arg-1 to Gly-6.		AR089: 7, AR053: 7, AR060: 5, AR039: 5, AR096: 5, AR104: 5, AR033: 5, AR055: 4, AR061: 2 L0439: 7, L0803: 6, L0599: 3, S0360: 2, L0794: 2, H0659: 2, L0747: 2, H0423: 2, H0662: 1, L0717: 1, H0351: 1, H0592: 1, H0085: 1, H0674: 1, H0551: 1, S0422: 1, L0761: 1, L0372: 1, L0767: 1, L0653: 1, L0776: 1, L0659: 1, H0144: 1, H0651: 1, H0436: 1, S0432: 1, L0740: 1, L0754: 1, L0779: 1, L0780: 1, L0731: 1, S0436: 1 and S0026: 1.	
HPDRG65	1059102	901	437 - 285	3076			H0658: 2	
HAOSG15	1059145	902	1 - 1776	3077			L0754: 23, L0747: 19, 2	

915

	H0188: 3, H0687: 3, S0214: 3, H0615: 3, H0622: 3, H0413: 3, H0494: 3, S0422: 3, L0769: 3, L0783: 3, L0744: 3, L0753: 3, H0445: 3, L0592: 3, L0361: 3, L0697: 3, H0624: 2, H0170: 2, H0265: 2, T0002: 2, H0218: 2, S0040: 2, H0657: 2, S0354: 2, S0376: 2, H0393: 2, L0717: 2, H0497: 2, H0574: 2, H0486: 2, H0599: 2, S0010: 2, S0346: 2, H0318: 2, H0288: 2, S0022: 2, H0428: 2, H0039: 2, T0006: 2, H0617: 2, H0674: 2, H0135: 2, H0616: 2, S0382: 2, S0326: 2, S0002: 2, L0763: 2, L0638: 2, L0764: 2, L0521: 2, L0662: 2, L0649: 2, L0775: 2, L0651: 2, L0606: 2, L0657: 2, L0526: 2, H0670: 2, H0660: 2, H0672: 2,	
--	--	--

	S0152: 2, H0626: 2, L0746: 2, L0596: 2, L0599: 2, L0604: 2, L0601: 2, H0667: 2, L0615: 1, H0225: 1, H0220: 1, S0470: 1, H0295: 1, T0049: 1, S0218: 1, H0650: 1, L0785: 1, S0212: 1, H0483: 1, H0664: 1, H0402: 1, H0459: 1, H0638: 1, H0125: 1, S0418: 1, T0008: 1, S0046: 1, H0619: 1, H0645: 1, H0549: 1, H0370: 1, H0415: 1, H0438: 1, H0612: 1, T0039: 1, H0635: 1, H0427: 1, S0280: 1, T0082: 1, H0618: 1, H0253: 1, T0048: 1, T0071: 1, H0421: 1, S0049: 1, H0209: 1, H0194: 1, H0085: 1, H0046: 1, H0567: 1, H0172: 1, H0012: 1, H0024: 1, H0373: 1, T0010: 1, H0375: 1, L0171: 1, H0594: 1, H0271: 1, H0028: 1,					
--	--	--	--	--	--	--

H0328: 1, L0483: 1, H0553: 1, H0628: 1, H0673: 1, H0598: 1, H0163: 1, H0090: 1, H0634: 1, H0264: 1, H0272: 1, H0412: 1, H0059: 1, S0038: 1, L0351: 1, L0564: 1, T0041: 1, S0016: 1, H0560: 1, S0464: 1, S0466: 1, L0065: 1, H0132: 1, H0131: 1, H0633: 1, S0144: 1, S0142: 1, S0426: 1, L0598: 1, L0520: 1, L0762: 1, L0770: 1, L0761: 1, L0772: 1, L0646: 1, L0648: 1, L0768: 1, L0794: 1, L0388: 1, L0803: 1, L0527: 1, L0656: 1, L0634: 1, L0518: 1, L0382: 1, L0809: 1, L0791: 1, L0664: 1, L0565: 1, H0693: 1, H0520: 1, H0547: 1, H0593: 1, S0126: 1, H0659: 1, H0648: 1, S0328: 1, S0330: 1, H0539: 1, L0602: 1,
--

									H0436: 1, H0478: 1, H0627: 1, S0322: 1, S3014: 1, S0028: 1, S0206: 1, S0032: 1, L0742: 1, L0756: 1, L0780: 1, H0343: 1, L0589: 1, L0595: 1, S0011: 1, H0668: 1, S0242: 1, S0194: 1, S0276: 1, H0422: 1 and L0698: 1.			
HHEND31	1059180	903	76 - 1827	3078	Asn-1 to Gln-6, Thr-71 to Ala-77, Cys-114 to Ser-126, Pro-147 to Tyr-156, Gly-176 to Gly-182.				AR089: 4, AR039: 3, AR033: 2, AR096: 2, AR104: 2, AR060: 2, AR053: 2, AR061: 1, AR055: 0 S0040: 1, S0114: 1, H0412: 1, S0386: 1, S0472: 1, L0649: 1, L0803: 1, S0053: 1, L0748: 1 and H0543: 1.			
HBMSN62	1059186	904	1000 - 1254	3079	Pro-6 to Lys-19.				L0754: 4, L0766: 3, L0803: 3, H0648: 3, L0758: 3, L0800: 2, L0775: 2, L0666: 2, L0747: 2, L0779: 2, S0116: 1, S0358: 1, H0574: 1, L0021: 1, L0022: 1, S0003: 1, H0615: 1, L0351: 1,			

							L0667: 1, L0764: 1, L0768: 1, L0806: 1, L0379: 1, L0659: 1, L0647: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, S0330: 1, L0748: 1, L0439: 1, L0777: 1 and L0599: 1.			
HOVCJ46	1059241	905	2 - 358	3080	Ser-38 to Gly-43, Gln-80 to Ile-93, Leu-104 to Arg-109		L0769: 6, L0757: 5, L0777: 3, L0731: 3, H0428: 2, L0809: 2, S0404: 2, L0748: 2, L0758: 2, H0575: 1, H0251: 1, H0085: 1, H0644: 1, H0646: 1, L0773: 1, L0662: 1, L0768: 1, L0775: 1, L0782: 1, L0783: 1, L0384: 1, S0126: 1, L0747: 1, L0749: 1 and L0779: 1.			
HWLEP14	1059394	906	32 - 1348	3081	Pro-11 to Arg-21, Gly-34 to Ser-41, Pro-65 to Asn-72, Ser-80 to Gln-85, Phe-124 to Cys-129.		AR089: 2, AR053: 2, AR061: 2, AR039: 2, AR060: 2, AR096: 1, AR033: 1, AR055: 1, AR104: 1, AR052: 0 L0664: 3, S0354: 2, H0617: 2, L0509: 2, H0670: 2, L0601: 2,			

								H0170: 1, H0510: 1, H0622: 1, H0604: 1, L0662: 1, H0689: 1 and H0683: 1.			
HTFNO73	1059415	907	802 - 491	3082			Gly-1 to Asn-7, Lys-12 to Glu-20, Asn-34 to Gly-41, Val-79 to Asn-88.	AR096: 2, AR089: 1, AR055: 1, AR033: 0, AR060: 0, AR061: 0, AR052: 0, AR104: 0, AR053: 0 H0666: 15, H0622: 5, L0809: 3, L0731: 2, H0586: 1, H0032: 1, H0488: 1, L3905: 1, L0766: 1, L0803: 1, L0804: 1, L0656: 1, L0659: 1, H0648: 1, L0779: 1, L0777: 1, L0758: 1, L0759: 1, H0707: 1, S0424: 1 and H0506: 1.			
HDABR73	1059532	908	382 - 1191	3083			Ser-1 to Trp-7, Asp-47 to Ile-52, Pro-70 to Ser-80, Cys-89 to Thr-98, Ala-131 to Ser-142, Phe-169 to Cys-176, Gly-183 to Ser-193, Phe-202 to Pro-209, Arg-243 to Ala-249, Ser-256 to Lys-265.	H0494: 21, H0529: 16, L0755: 16, S0358: 15, H0435: 13, L0665: 11, L0747: 11, L0752: 11, H0521: 10, L0649: 9, S0360: 8, L0662: 8, L0659: 8, L0601: 8, S0354: 7, L0754: 7, H0663: 6, S0376: 6, S0444: 6, H0592: 6,	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716	

					H0586: 6, H0618: 6, H0620: 6, L0637: 6, L0646: 6, L0766: 6, L0666: 6, H0295: 5, H0661: 5, H0497: 5, L0653: 5, H0593: 5, L0758: 5, S0356: 4, H0580: 4, H0615: 4, T0023: 4, H0038: 4, H0647: 4, L0772: 4, L0768: 4, L0657: 4, S0374: 4, H0685: 3, H0483: 3, S0442: 3, H0253: 3, H0581: 3, H0604: 3, H0031: 3, H0553: 3, H0617: 3, H0488: 3, S0440: 3, H0641: 3, L0794: 3, L0664: 3, H0666: 3, S0380: 3, L0439: 3, L0750: 3, L0596: 3, H0294: 2, H0656: 2, H0664: 2, H0662: 2, H0676: 2, S0408: 2, H0370: 2, H0392: 2, H0409: 2, H0587: 2, H0046: 2, H0009: 2, H0012: 2, H0083: 2, H0688: 2, H0213: 2, H0030: 2, H0040: 2,
--	--	--	--	--	--

	H0059: 2, H0633: 2, H0646: 2, S0422: 2, L0763: 2, L0771: 2, L0382: 2, S0052: 2, H0144: 2, S0310: 2, H0689: 2, H0658: 2, H0670: 2, H0660: 2, S0328: 2, H0522: 2, H0696: 2, H0478: 2, L0744: 2, L0749: 2, L0731: 2, L0759: 2, S0434: 2, H0543: 2, S0424: 2, H0506: 2, S0430: 1, H0650: 1, H0657: 1, S0116: 1, H0484: 1, T0008: 1, S0132: 1, H0550: 1, H0486: 1, T0114: 1, L0021: 1, H0318: 1, H0309: 1, H0263: 1, H0234: 1, H0596: 1, H0597: 1, H0121: 1, H0150: 1, L0471: 1, H0375: 1, H0687: 1, H0428: 1, H0039: 1, H0622: 1, H0033: 1, H0644: 1, H0032: 1, H0673: 1, H0169: 1, S0036: 1, H0616: 1, T0067: 1, H0264: 1,					
--	--	--	--	--	--	--

HOGAJ24	1059626	909	169 - 1698	3084	Gln-37 to Arg-58, Arg-75 to Met-87, Lys-113 to Asn-123	H0560: 1, H0625: 1, S0466: 1, S0150: 1, S0472: 1, S0144: 1, S0002: 1, L0640: 1, L0770: 1, L0761: 1, L0372: 1, L0764: 1, L0363: 1, L0364: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0493: 1, L0636: 1, L0383: 1, L0663: 1, H0693: 1, H0520: 1, H0547: 1, S0126: 1, H0690: 1, H0682: 1, H0683: 1, H0684: 1, H0659: 1, H0648: 1, H0672: 1, S0330: 1, S0152: 1, S0350: 1, S0392: 1, S0432: 1, L0741: 1, L0751: 1, L0745: 1, L0757: 1, S0436: 1, L0592: 1, L0599: 1, L0361: 1, L0603: 1, H0423: 1, S0460: 1, S0446: 1 and L0600: 1.		
						H0435: 20, L0751: 20, H0436: 6, L0665: 5, H0052: 4, S0036: 4.		

Arg-148 to Tyr-155, L0438: 4, H0264: 3, Ser-158 to Gly-165, H0265: 2, H0261: 2, Ala-168 to Lys-178, S0222: 2, T0010: 2, His-215 to Ile-221, L0770: 2, L0764: 2, Ser-236 to Tyr-241, L0648: 2, H0547: 2, Ala-278 to Gly-287, H0682: 2, H0672: 2, Gly-294 to Asp-299, L0748: 2, L0756: 2, Glu-306 to Ser-313, S0031: 2, H0423: 2, Ser-374 to Arg-382, H0556: 1, H0295: 1, Ala-411 to Pro-416, S0134: 1, S0282: 1, Cys-423 to Arg-430, H0255: 1, H0661: 1, Thr-452 to Cys-462, H0663: 1, S0356: 1, Glu-479 to Glu-499, S0360: 1, H0619: 1, Gly-501 to Gly-507, L0717: 1, S6014: 1, H0415: 1, H0643: 1, H0486: 1, H0156: 1, H0618: 1, S0010: 1, H0581: 1, S0049: 1, H0457: 1, H0050: 1, H0012: 1, H0320: 1, H0354: 1, H0271: 1, L0140: 1, H0063: 1, H0272: 1, H0494: 1, H0646: 1, L0761: 1, L0644: 1, L0771: 1, L0774: 1, L0788: 1, H0698: 1, H0593: 1, H0658: 1, H0648: 1, S0328: 1, S0330: 1, H0518: 1, L0744: 1,					
---	--	--	--	--	--

HTJMV05	1059692	910	2 - 685	3085			L0439: 1, L0749: 1, L0758: 1, L0759: 1 and S0260: 1. H0083: 17, H0556: 14, H0265: 7, L0794: 6, H0271: 5, H0543: 5, L0766: 4, L0809: 4, H0436: 3, H0635: 2, H0150: 2, S0114: 1, H0650: 1, H0645: 1, S0222: 1, H0438: 1, H0594: 1, H0416: 1, H0615: 1, H0033: 1, H0087: 1, H0488: 1, S0440: 1, S0142: 1, L0764: 1, L0803: 1, L0655: 1, L0657: 1, L0656: 1, L0659: 1, L0783: 1, L0790: 1, L0663: 1, L0665: 1, S0216: 1, H0670: 1, L0758: 1, H0595: 1, H0542: 1, H0423: 1 and H0422: 1.			
HOOIL70	1059710	911	134 - 1996	3086	Pro-19 to Ala-24, Pro-57 to Asp-64, Pro-125 to His-138, Ser-177 to Ala-182, Asn-257 to Ala-266, Glu-275 to Asn-284,	L0749: 6, L0761: 4, H0657: 3, S0142: 3, L0766: 3, L0655: 3, L0777: 3, L0599: 3, H0556: 2, S0358: 2, H0457: 2, L0769: 2,	12p13	103950, 120580, 131440, 139130, 142680, 176260.		

					Arg-288 to Lys-303, Pro-340 to Lys-345, Arg-378 to Cys-387, His-411 to Arg-419, Ile-462 to Ser-468, Gln-553 to Ile-565, Lys-577 to Val-589, His-594 to Lys-621.				190450, 200990, 216950, 600228, 600414, 600618, 602096	

Thr-151 to Gln-178, Glu-199 to Leu-210, Asp-217 to Tyr-237, Val-245 to Tyr-251.	S0476: 5, H0575: 5, H0622: 5, L0659: 5, L0758: 5, H0645: 4, S0440: 4, L0770: 4, L0806: 4, L0776: 4, L0439: 4, L0750: 4, L0755: 4, L0731: 4, S0442: 3, S0022: 3, H0032: 3, H0591: 3, L0769: 3, L0665: 3, H0144: 3, H0547: 3, H0539: 3, S0390: 3, S0028: 3, S0206: 3, L0759: 3, L0591: 3, H0624: 2, H0686: 2, S0212: 2, S0282: 2, H0662: 2, S0444: 2, H0637: 2, S0045: 2, H0619: 2, H0351: 2, H0586: 2, H0486: 2, H0042: 2, H0052: 2, N0006: 2, H0015: 2, H0039: 2, H0553: 2, H0135: 2, H0488: 2, H0646: 2, H0652: 2, L0369: 2, L0627: 2, L0764: 2, L0766: 2, L0774: 2, L0653: 2, L0565: 2, H0519: 2, H0593: 2, L0742: 2,
--	--

					L0743: 2, L0749: 2, S0434: 2, S0436: 2, L0596: 2, L0589: 2, H0171: 1, H0713: 1, H0717: 1, H0716: 1, H0583: 1, H0650: 1, H0657: 1, S0116: 1, S0001: 1, H0661: 1, H0663: 1, H0638: 1, S0354: 1, H0722: 1, S0132: 1, L0717: 1, H0443: 1, S0222: 1, H0431: 1, H0609: 1, H0587: 1, H0331: 1, H0632: 1, T0039: 1, T0060: 1, H0069: 1, H0635: 1, H0156: 1, H0599: 1, H0118: 1, T0082: 1, S0010: 1, S0346: 1, T0048: 1, H0374: 1, H0194: 1, H0309: 1, H0545: 1, H0563: 1, L0471: 1, H0350: 1, H0014: 1, H0051: 1, H0266: 1, H0687: 1, S0003: 1, H0688: 1, T0023: 1, L0483: 1, H0031: 1, L0055: 1, H0674: 1, S0036: 1, H0038: 1,
--	--	--	--	--	--

	H0616: 1, H0264: 1, H0056: 1, H0059: 1, T0069: 1, S0386: 1, L0351: 1, L0435: 1, H0280: 1, H0359: 1, S0450: 1, S0438: 1, S0344: 1, S0422: 1, S0002: 1, H0529: 1, L0640: 1, L0763: 1, L0638: 1, L0796: 1, L0765: 1, L0363: 1, L0768: 1, L0649: 1, L0561: 1, L0388: 1, L0650: 1, L0775: 1, L0784: 1, L0633: 1, L0628: 1, L0809: 1, L0519: 1, L0790: 1, L0663: 1, L0664: 1, H0520: 1, H0684: 1, H0435: 1, H0660: 1, S0378: 1, S0380: 1, H0522: 1, H0696: 1, S0146: 1, H0436: 1, H0345: 1, S014: 1, L0744: 1, L0752: 1, S0031: 1, H0707: 1, L0592: 1, L0361: 1, S0011: 1, S0192: 1, S0242: 1, S0460: 1, H0677: 1, S0446: 1 and					
--	--	--	--	--	--	--

HTPH001	1059764	913	2 - 1081	3088	<p>Pro-81 to Lys-89, Cys-91 to Leu-100, Asp-103 to Ile-110, Pro-179 to Pro-184, Arg-194 to Met-199, Pro-203 to Arg-213, Pro-249 to Ala-262, Ser-274 to Glu-279, Asp-301 to Trp-309, Pro-335 to Ser-343.</p>	<p>H0008: 1. AR096: 5, AR055: 3, AR089: 3, AR061: 3, AR053: 2, AR033: 2, AR060: 2, AR039: 1, AR104: 1, AR052: 0 H0599: 25, L0731: 19, L0750: 14, L0754: 13, L0766: 8, L0776: 8, L0752: 8, L0757: 8, L0747: 6, L0744: 5, L0769: 4, L0779: 4, L0777: 4, S0420: 3, L0770: 3, L0755: 3, L0758: 3, L0471: 2, L0771: 2, L0775: 2, L0806: 2, L0659: 2, S0126: 2, H0670: 2, L0743: 2, L0759: 2, L0604: 2, H0624: 1, H0685: 1, H0650: 1, H0484: 1, H0483: 1, H0661: 1, S0358: 1, S0360: 1, S0046: 1, H0411: 1, H0632: 1, H0427: 1, S0280: 1, H0097: 1, H0004: 1, S0049: 1, H0024: 1, H0028: 1, H0622: 1, L0142: 1, H0708: 1,</p>	<p>3q13.3-q21</p>	<p>106165, 117700, 117700, 126451, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682</p>
---------	---------	-----	----------	------	---	---	-------------------	---

							H0591: 1, L0763: 1, L0772: 1, L0800: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0774: 1, L0807: 1, L0809: 1, L0666: 1, L0665: 1, S0148: 1, S0328: 1, S0406: 1, S3014: 1, S0027: 1, S0028: 1, L0599: 1, S0026: 1 and H0667: 1.			
HDPWK69	1059784	914	206 - 496	3089			S0001: 1, H0125: 1, H0580: 1, H0581: 1, H0457: 1, H0428: 1, L0627: 1, H0521: 1 and L0749: 1.			
HPCOK03	1059849	915	8 - 1267	3090	Asp-19 to Ile-26, Lys-86 to Leu-96, Pro-108 to Leu-119, Ser-121 to Gln-144, Ser-243 to Ala-251, Pro-299 to Thr-305, Asn-349 to Ser-359, Leu-381 to Pro-389, Asn-403 to Ser-420.	L0748: 19, L0758: 6, L0794: 5, L0766: 5, L0749: 4, H0038: 3, H0494: 3, L0771: 3, H0520: 3, H0288: 2, H0551: 2, L0665: 2, L0438: 2, H0547: 2, H0659: 2, L0591: 2, L0595: 2, H0177: 1, S0418: 1, S0046: 1, H0393: 1, L0717: 1, H0370: 1, T0039: 1, T0114: 1, H0318: 1,	20q13.2- q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235		

							T0110: 1, H0553: 1, H0412: 1, H0413: 1, H0623: 1, S0112: 1, T0042: 1, H0529: 1, L0369: 1, L0769: 1, L0646: 1, L0800: 1, L0805: 1, L0655: 1, L0657: 1, L0787: 1, L0789: 1, H0702: 1, H0684: 1, H0648: 1, S0152: 1, H0522: 1, H0626: 1, L0751: 1, L0747: 1, L0777: 1, L0608: 1, H0668: 1 and H0667: 1.				
HVVP14	1059852	916	3 - 935	3091	Pro-26 to Ser-35, Lys-46 to Arg-63, Ile-71 to Asp-76, Lys-105 to Ile-115, Glu-119 to Tyr-125, His-136 to His-141, Leu-148 to Arg-154, Thr-165 to Glu-170, Asp-194 to Gly-201, Glu-216 to Pro-222, Ser-227 to Phe-232, Arg-236 to Glu-248, Glu-271 to Lys-282, Ala-297 to Leu-311.	L0754: 10, H0251: 9, L0591: 9, S0212: 8, S0003: 7, L0771: 7, S0192: 7, L0805: 6, H0616: 5, L0776: 5, H0689: 5, L0747: 5, L0777: 5, L0757: 5, L0759: 5, H0624: 4, S0420: 4, S0360: 4, L0471: 4, H0124: 4, H0551: 4, H0413: 4, L0769: 4, L0517: 4, S0126: 4, S3014: 4, L0756: 4, L0755: 4, L0731: 4, S0045: 3,	11p13	102772, 106210, 106210, 106210, 106210, 107271, 114550, 115500, 136530, 151390, 179615, 179615, 179616, 180385, 194070,			

					H0575: 3, H0031: 3, H0068: 3, H0509: 3, L0665: 3, H0658: 3, S0406: 3, S0027: 3, L0439: 3, L0751: 3, L0745: 3, L0749: 3, L0750: 3, L0779: 3, L0753: 3, L0758: 3, H0171: 2, T0049: 2, H0663: 2, S0418: 2, S0356: 2, S0358: 2, H0632: 2, H0486: 2, L0477: 2, T0039: 2, H0013: 2, H0421: 2, H0544: 2, H0023: 2, S0022: 2, S0214: 2, H0615: 2, H0553: 2, H0032: 2, H0135: 2, H0591: 2, H0264: 2, H0412: 2, H0647: 2, L0659: 2, L0540: 2, L0783: 2, L0530: 2, L0789: 2, L0663: 2, L0664: 2, H0144: 2, S0374: 2, H0682: 2, H0435: 2, H0672: 2, S3012: 2, L0752: 2, S0434: 2, L0592: 2, L0581: 2, S0026: 2, S0194: 2, S0424: 2,	194070, 194070, 245349
--	--	--	--	--	--	------------------------------

[illegible]

HOOJC15	1059967	917	1077 - 298	3092				L0541: 1, L0647: 1, L0788: 1, L0666: 1, L0565: 1, S0148: 1, H0520: 1, H0690: 1, H0659: 1, H0648: 1, H0651: 1, S0328: 1, S0330: 1, S0380: 1, H0710: 1, H0709: 1, H0696: 1, H0704: 1, S0146: 1, H0555: 1, H0478: 1, S0390: 1, S0028: 1, L0740: 1, L0739: 1, L0780: 1, H0444: 1, S0308: 1, H0343: 1, H0595: 1, L0605: 1, L0608: 1, L0595: 1, S0011: 1, H0653: 1 and H0506: 1. L0747: 4, L0764: 3, H0648: 3, H0624: 2, H0673: 2, L0665: 2, L0748: 2, L0758: 2, H0171: 1, H0556: 1, H0351: 1, L0021: 1, H0318: 1, H0545: 1, H0354: 1, H0616: 1, L0763: 1, L0769: 1, L0667: 1, L0773: 1, L0766: 1, L0804: 1, L0659: 1, L0666: 1.		
---------	---------	-----	------------	------	--	--	--	---	--	--

								H0547: 1, H0519: 1, H0690: 1, H0658: 1, S0378: 1, S0146: 1, L0740: 1, L0589: 1 and S0106: 1.			
HODFG47	1059969	918	182 - 1213	3093			Gln-1 to Leu-9, Thr-21 to Phe-26, Leu-49 to Arg-62, Thr-114 to Asp-120, Arg-132 to Ser-140, Gln-148 to Trp-155, Pro-192 to Asn-198, Lys-235 to Asp-241, Tyr-256 to Trp-266, Ile-273 to Glu-283, Ser-297 to Lys-304, Val-326 to Val-331.	S0003: 3, L0776: 2, S0040: 1, H0587: 1, S0010: 1, H0328: 1, H0615: 1, H0551: 1, T0042: 1, H0494: 1, L0657: 1, H0519: 1, S0328: 1, H0539: 1, L0758: 1, L0608: 1 and S0194: 1.			
HBIPC05	1060137	919	2 - 265	3094			Pro-19 to Glu-24, Ala-66 to Arg-71, Pro-81 to Tyr-88.	H0617: 2, H0618: 1, S0052: 1 and H0593: 1.			
HOPJ32	1060193	920	447 - 635	3095			Lys-30 to Phe-36.	L0766: 1, H0684: 1 and H0542: 1.	7p22	600259, 600259	
HNOBN20	1060382	921	1380 - 1282	3096				H0615: 2, H0580: 1, H0024: 1, H0428: 1, L0804: 1, H0670: 1, H0651: 1 and L0756: 1.			
HOCPX74	1060391	922	3 - 1514	3097			Gly-18 to Glu-23.	H0650: 1, H0656: 1, H0618: 1, H0290: 1, H0551: 1, H0477: 1, S0450: 1, H0547: 1,			

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

							H0543: 2, H0510: 1, H0316: 1, S0036: 1, H0538: 1, S0260: 1, H0445: 1, H0595: 1 and S0412: 1.			
HCOOQI1	1060656	925	868 - 785	3100			L0665: 6, L0740: 6, L0659: 5, L0774: 4, L0775: 4, L0518: 4, L0748: 4, L0754: 4, L0749: 4, S0376: 3, S0002: 3, L0763: 3, L0766: 3, L0776: 3, L0666: 3, L0751: 3, L0747: 3, L0752: 3, L0762: 2, L0640: 2, L0769: 2, L0662: 2, L0768: 2, L0375: 2, L0438: 2, L0750: 2, L0755: 2, L0757: 2, L0603: 2, H0661: 1, L0717: 1, H0370: 1, H0581: 1, H0052: 1, H0545: 1, L0369: 1, L0772: 1, L0642: 1, L0764: 1, L0363: 1, L0767: 1, L0651: 1, L0806: 1, L0809: 1, L0528: 1, L0367: 1, L0791: 1, L0664: 1, H0689: 1, H0670: 1,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280,	

HWMGI51	1060711	926	1 - 618	3101	Tyr-23 to Arg-29, Gln-57 to Cys-65, Cys-164 to Trp-169.	H0651: 1, H0521: 1, L0744: 1, L0439: 1, L0731: 1 and L0605: 1. L0805: 9, L0776: 8, H0585: 7, L0731: 7, L0751: 3, L0747: 3, S0282: 2, H0606: 2, H0038: 2, L0769: 2, L0803: 2, L0809: 2, H0690: 2, L0777: 2, L0752: 2, L0758: 2, L0601: 2, H0170: 1, S0358: 1, S0360: 1, S0007: 1, S0476: 1, S0278: 1, H0370: 1, H0559: 1, L0622: 1, L0623: 1, T0114: 1, H0427: 1, L0021: 1, H0204: 1, H0086: 1, H0178: 1, S0051: 1, H0688: 1, H0213: 1, H0163: 1, H0087: 1, H0494: 1, S0440: 1, L0535: 1, L3904: 1, L0764: 1, L0662: 1, L0794: 1, L0774: 1, L0375: 1, L0376: 1, L0657: 1, L0526: 1, L0783: 1, L0383: 1, L0787: 1, H0144: 1,			602475
---------	---------	-----	---------	------	---	---	--	--	--------

							H0660: 1, H0696: 1, S0044: 1, L0740: 1, L0750: 1, L0780: 1, S0436: 1, H0667: 1, H0423: 1 and S0424: 1.			
HDPJG33	1060780	927	555 - 863	3102	Cys-38 to Thr-45, Ser-69 to Asp-79, Leu-81 to Gly-89, Pro-97 to Leu-103.		H0208: 1, H0024: 1, H0038: 1, L0776: 1, H0658: 1, H0521: 1 and H0665: 1.			
HLYAE20	1060967	928	801 - 1259	3103	Pro-10 to Arg-15, Gly-45 to Trp-57, Gly-77 to Pro-88.					
HKZAR86	1060972	929	1 - 1302	3104	Gln-1 to Arg-14, Leu-21 to Arg-32, Cys-44 to Cys-57.		L0771: 9, H0436: 6, H0494: 4, L0761: 4, L0789: 4, L0743: 4, H0656: 3, H0581: 3, L0764: 3, H0543: 3, H0580: 2, H0427: 2, H0538: 2, L0769: 2, L0806: 2, H0699: 2, H0689: 2, H0521: 2, L0755: 2, H0583: 1, H0341: 1, H0483: 1, H0662: 1, H0550: 1, S0222: 1, H0392: 1, H0486: 1, S0250: 1, H0488: 1, S0426: 1, L0800: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1,			

							L0659: 1, S0374: 1, H0547: 1, H0593: 1, S0126: 1, H0435: 1, S0152: 1, L0780: 1, L0757: 1, L0758: 1, H0423: 1 and H0422: 1.				
HAOTX62	1061036	930	65 - 298	3105							
HOCQG58	1061180	931	3034 - 251	3106			Glu-22 to Ser-36, Gly-43 to Asp-74, Leu-83 to Leu-90, Glu-97 to Thr-106, Pro-135 to Arg-140, Lys-188 to Arg-201, Asp-330 to Asp- 336, Thr-371 to Ser-381, Asp-413 to Trp-418, Tyr-454 to Lys-461, Gly-474 to Cys-479, Gly-511 to Asp-516, Glu-564 to Thr-573, Phe-640 to Ala-662, Arg-700 to Leu-706, Ala-737 to Tyr-743, Pro-800 to Gln-806, Ala-876 to Thr-881, Arg-921 to Leu-928.	H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2, L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1,			

S0356: 1, S0358: 1, S0360: 1, S0132: 1, H0411: 1, H0550: 1, S0222: 1, H0441: 1, L0477: 1, L0021: 1, S0346: 1, T0048: 1, H0309: 1, H0009: 1, H0172: 1, L0483: 1, H0031: 1, H0628: 1, H0673: 1, H0674: 1, H0040: 1, H0551: 1, H0412: 1, T0004: 1, H0102: 1, L0351: 1, H0280: 1, H0560: 1, H0633: 1, S0344: 1, L0762: 1, L0501: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0776: 1, L0656: 1, L0783: 1, L0790: 1, L2269: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0435: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, H0576: 1, L0742: 1, L0439: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1,
--

							L0755: 1, L0731: 1, S0031: 1, H0445: 1, L0587: 1, L0592: 1, L0485: 1, L0595: 1, L0601: 1, H0668: 1, S0192: 1 and S0194: 1. H0415: 2			
HOFNH33	1061185	932	131 - 925	3107	Asp-78 to Gly-84, Glu-112 to Cys-117, Glu-202 to Val-207, Ser-219 to Ser-234, Pro-237 to Lys-252.					
HAJAJQ63	1061238	933	966 - 2816	3108	Met-29 to Glu-38, Ser-40 to Ala-48.		H0436: 65, H0521: 11, S0422: 9, L0439: 9, S0360: 8, L0754: 8, L0471: 7, H0581: 6, L0521: 6, H0520: 5, H0519: 5, H0171: 4, S0358: 4, H0580: 4, S0003: 4, H0529: 4, L0520: 4, L0666: 4, L0663: 4, L0664: 4, H0144: 4, H0547: 4, H0539: 4, L0581: 4, L0362: 4, H0624: 3, H0657: 3, S0444: 3, L0717: 3, S0474: 3, S0049: 3, H0052: 3, H0428: 3, H0553: 3, H0090: 3, H0616: 3, H0413: 3, L0774: 3,			

L0659: 3, H0658: 3, S0380: 3, H0518: 3, L0748: 3, L0779: 3, L0777: 3, L0752: 3, H0445: 3, H0543: 3, H0341: 2, S0001: 2, H0669: 2, S0418: 2, S0420: 2, H0393: 2, S0222: 2, H0586: 2, H0427: 2, H0318: 2, H0046: 2, H0457: 2, H0373: 2, S0051: 2, H0615: 2, L0455: 2, H0040: 2, H0560: 2, S0208: 2, L0598: 2, L0369: 2, L0776: 2, L0655: 2, L0517: 2, L0665: 2, S0374: 2, H0660: 2, H0672: 2, S0378: 2, L0602: 2, S0152: 2, H0555: 2, L0756: 2, L0758: 2, L0599: 2, L0608: 2, L0594: 2, S0026: 2, S0192: 2, H0542: 2, H0423: 2, S0424: 2, H0170: 1, H0686: 1, S0040: 1, H0717: 1, H0716: 1, H0583: 1, H0656: 1, H0671: 1.					
--	--	--	--	--	--

H0663: 1, H0638: 1, L0005: 1, S0442: 1, S0354: 1, H0735: 1, S0045: 1, H0619: 1, S6026: 1, S0300: 1, H0175: 1, H0369: 1, H0431: 1, H0612: 1, H0592: 1, H0587: 1, H0331: 1, L0586: 1, H0635: 1, H0156: 1, H0098: 1, H0421: 1, H0309: 1, H0263: 1, T0110: 1, H0597: 1, N0006: 1, H0620: 1, T0010: 1, H0083: 1, H0375: 1, S6028: 1, H0687: 1, S0250: 1, S0214: 1, H0328: 1, H0622: 1, H0124: 1, H0598: 1, H0400: 1, H0163: 1, H0038: 1, H0063: 1, H0551: 1, T0067: 1, H0623: 1, S0038: 1, L0564: 1, L0370: 1, T0042: 1, H0494: 1, H0625: 1, H0561: 1, L0065: 1, S0440: 1, S0150: 1, H0641: 1, L0638: 1, L0667: 1, L0641: 1,
--

HVVBK70	1061258	934	650 - 1276	3109	Arg-17 to Gly-46, Leu-84 to Pro-133, Glu-137 to Pro-149, Glu-179 to Gly-185, Arg-188 to Tyr-198.	L0773: 1, L0648: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0775: 1, L0378: 1, L0806: 1, L0654: 1, L0526: 1, L0519: 1, L0789: 1, L0792: 1, L0793: 1, H0699: 1, L0565: 1, L0438: 1, H0435: 1, S0406: 1, S0392: 1, H0478: 1, L0742: 1, L0740: 1, L0747: 1, L0750: 1, L0753: 1, L0731: 1, S0434: 1, S0436: 1, L0590: 1, L0592: 1, L0604: 1, L0366: 1, H0668: 1, H0653: 1, H0667: 1, H0422: 1 and S0412: 1.		
						L0731: 9, H0424: 6, L0754: 6, L0758: 5, L0662: 4, L0748: 4, L0747: 4, L0749: 4, L0623: 3, S0050: 3, H0038: 3, H0616: 3, L0659: 3, L0485: 3, H0685: 2, H0255: 2, H0642: 2, H0031: 2, L0657: 2, L0439: 2,		

HVVBA82	1061332	935	3 - 500	3110	Arg-17 to Gln-23, Asn-63 to Gln-71.	L0779: 2, L0599: 2, L0604: 2, H0171: 1, H0657: 1, H0671: 1, S0360: 1, S0408: 1, S0045: 1, H0587: 1, H0333: 1, L0622: 1, H0486: 1, H0013: 1, H0599: 1, H0545: 1, H0594: 1, H0266: 1, H0687: 1, H0688: 1, H0213: 1, H0553: 1, H0135: 1, H0090: 1, H0059: 1, H0494: 1, H0646: 1, H0529: 1, L0763: 1, L0639: 1, L0772: 1, L0764: 1, L0375: 1, L0806: 1, L0509: 1, L0783: 1, L0532: 1, S0428: 1, H0144: 1, H0658: 1, H0672: 1, S0330: 1, S0406: 1, S0206: 1, L0756: 1, L0593: 1, L0361: 1 and H0668: 1. L0748: 10, H0305: 6, H0150: 5, L0777: 5, L0731: 5, L0776: 4, L0809: 4, L0751: 4, S0358: 3, L0157: 3, L0774: 3, L0775: 3,	22q13.1	103050, 103050, 124030, 124030, 138981, 182380,
---------	---------	-----	---------	------	--	--	---------	--

L0664: 3, H0672: 3, L0439: 3, L0754: 3, L0750: 3, H0255: 2, S0360: 2, T0039: 2, T0006: 2, S0036: 2, H0087: 2, H0264: 2, H0625: 2, L0769: 2, L0768: 2, L0651: 2, L0663: 2, H0593: 2, L0740: 2, L0755: 2, L0758: 2, L0605: 2, H0484: 1, H0402: 1, S0418: 1, S0420: 1, S0376: 1, S0045: 1, S0046: 1, S0278: 1, H0437: 1, H0392: 1, L0468: 1, H0333: 1, H0643: 1, H0331: 1, H0270: 1, H0101: 1, H0427: 1, H0004: 1, S0010: 1, H0390: 1, H0318: 1, H0327: 1, H0544: 1, H0009: 1, H0024: 1, H0071: 1, H0266: 1, H0213: 1, H0553: 1, H0673: 1, H0135: 1, H0090: 1, H0634: 1, H0616: 1, T0041: 1, H0647: 1, S0344: 1, H0529: 1,	188826, 190040, 190040, 190040
--	---

							L0637: 1, L0800: 1, L0641: 1, L0662: 1, L0766: 1, L0804: 1, L0806: 1, L0805: 1, L0657: 1, L0659: 1, L0540: 1, L0518: 1, S0053: 1, S0374: 1, L0438: 1, H0547: 1, S0126: 1, H0435: 1, S0380: 1, H0518: 1, H0696: 1, S3014: 1, L0742: 1, L0757: 1, H0445: 1, L0361: 1, S0192: 1, H0543: 1 and H0008: 1.			
HWLLG38	1061388	936	99 - 692	3111	Gly-7 to Arg-14, Phe-77 to Gly-83, Ser-98 to Leu-106, Asp-114 to Tyr-120, Met-143 to Lys-156, Met-161 to Gly-167, Ala-178 to Ser-183.	H0622: 2, L0763: 2, L0776: 2, L0759: 2, S0358: 1, H0370: 1, H0486: 1, H0013: 1, H0428: 1, H0035: 1, H0591: 1, L0783: 1, H0144: 1, S0330: 1, L0439: 1 and L0756: 1.				
HTPCH84	1061466	937	1 - 978	3112	Pro-2 to Trp-11, Arg-73 to Glu-79, Pro-95 to Thr-103, Pro-106 to Phe-115, Asn-117 to Tyr-124, Thr-142 to Cys-149, Thr-177 to Pro-189,	AR052: 108, AR053: 84, AR096: 60, AR039: 52, AR061: 15, AR055: 14, AR089: 11, AR060: 8, AR033: 7, AR104: 6 H0494: 4, H0593: 3,				

						Ser-196 to Cys-208, Gly-219 to Asp-224, Pro-278 to Gly-283.	S0356: 1, S0045: 1, H0485: 1, H0486: 1, H0052: 1, H0545: 1, H0179: 1, H0039: 1 and S0148: 1.			
HWLHJ68	1061521	938	139 - 471	3113	Cys-17 to Lys-31.		AR052: 8, AR053: 6, AR039: 5, AR096: 5, AR033: 3, AR089: 3, AR104: 3, AR060: 3, AR055: 3, AR061: 2 H0651: 709, L0766: 5, L0754: 5, L0756: 3, L0803: 2, L0779: 2, L0759: 2, S0354: 1, H0643: 1, H0013: 1, H0194: 1, H0545: 1, H0373: 1, H0252: 1, H0615: 1, H0316: 1, H0040: 1, H0641: 1, H0647: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0649: 1, L0804: 1, L0527: 1, L0656: 1, H0144: 1, H0702: 1, H0547: 1, H0555: 1, H0436: 1, S0028: 1, L0746: 1, L0750: 1, L0777: 1, L0780: 1, L0752: 1 and L0686: 1.			

HLGDA34	1061543	939	2 - 193	3114	Pro-27 to His-34.	S0428: 2, H0610: 1, H0179: 1, H0271: 1 and S0052: 1.		
HAICB08	1061629	940	3 - 338	3115	Glu-7 to Gly-12, Ala-71 to Leu-79, Ser-98 to Asp-103.	S0132: 1		
HVVAW60	1061694	941	208 - 741	3116	Pro-18 to Asn-25, Ala-44 to Asn-50, Arg-56 to Lys-64, Gly-76 to Gly-85, Lys-92 to Leu-98, Gly-116 to Gly-121, Gln-132 to His-138, Thr-159 to Asp-167.	L0794: 5, L0803: 3, L0518: 3, L0748: 3, H0556: 2, S0360: 2, S0422: 2, L0783: 2, L0809: 2, L0438: 2, L0740: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0757: 2, L0588: 2, L0594: 2, H0171: 1, T0002: 1, H0657: 1, H0638: 1, S0132: 1, H0369: 1, H0441: 1, H0431: 1, H0497: 1, S0280: 1, S0010: 1, H0318: 1, H0263: 1, H0544: 1, T0003: 1, H0373: 1, H0201: 1, H0032: 1, H0673: 1, H0068: 1, H0038: 1, H0551: 1, S0426: 1, L0640: 1, L0763: 1, L0638: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1,		

HPDVB50	1061708	942	3 - 206	3117	Cys-4 to Asp-16, Lys-36 to Tyr-41, Pro-48 to Asp-68.	L0806: 1, L0805: 1, L0787: 1, H0660: 1, H0672: 1, S0328: 1, S3014: 1, L0749: 1, L0759: 1, H0445: 1, L0581: 1 and H0216: 1. L0748: 26, L0754: 20, 4q26 L0747: 9, L0756: 8, L0777: 8, L0752: 8, L0744: 6, L0740: 6, L0757: 6, H0046: 5, H0553: 5, L0766: 5, L0803: 5, L0775: 5, L0755: 5, L0759: 5, S0418: 4, S0010: 4, L0662: 4, L0794: 4, L0774: 4, L0806: 4, L0438: 4, L0731: 4, L0758: 4, S0212: 3, S0358: 3, H0632: 3, H0635: 3, H0156: 3, H0052: 3, S0003: 3, S0152: 3, H0436: 3, S0037: 3, S0028: 3, L0750: 3, L0615: 2, H0556: 2, S0420: 2, H0619: 2, H0559: 2, H0013: 2, H0575: 2, H0421: 2, H0251: 2, H0545: 2, H0687: 2.	147680, 189800, 600919, 601542
---------	---------	-----	---------	------	--	--	---

	H0628: 2, H0538: 2, L0763: 2, L0770: 2, L0764: 2, L0626: 2, L0804: 2, L0375: 2, L0809: 2, S0126: 2, H0658: 2, H0660: 2, H0521: 2, S0390: 2, S0027: 2, L0745: 2, L0588: 2, L0591: 2, L0603: 2, S0192: 2, S0196: 2, H0170: 1, S0040: 1, S0114: 1, S0134: 1, L0002: 1, H0657: 1, H0341: 1, H0663: 1, H0638: 1, S0354: 1, S0360: 1, S0045: 1, S0046: 1, S0132: 1, H0351: 1, H0550: 1, S0222: 1, H0592: 1, H0497: 1, H0333: 1, H0642: 1, H0486: 1, H0244: 1, H0036: 1, H0004: 1, T0048: 1, H0581: 1, S0049: 1, H0263: 1, H0546: 1, L0471: 1, H0620: 1, H0197: 1, H0199: 1, H0246: 1, H0373: 1, H0083: 1, H0356: 1, S0025: 1,	
--	--	--

			H0510: 1, H0266: 1, S0250: 1, H0328: 1, H0622: 1, H0030: 1, H0644: 1, H0032: 1, H0211: 1, H0090: 1, H0372: 1, H0040: 1, T0067: 1, H0412: 1, H0413: 1, H0100: 1, T0041: 1, H0509: 1, S0150: 1, H0641: 1, S0422: 1, L0769: 1, L0646: 1, L0773: 1, L0521: 1, L0767: 1, L0768: 1, L0650: 1, L0376: 1, L0776: 1, L0655: 1, L0661: 1, L0512: 1, L0783: 1, L0791: 1, L0666: 1, H0520: 1, H0593: 1, H0414: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, S0378: 1, S0146: 1, H0555: 1, H0626: 1, S0312: 1, S0206: 1, L0439: 1, L0751: 1, L0749: 1, L0786: 1, L0779: 1, H0445: 1, L0599: 1, L0608: 1, S0026: 1, H0665: 1, H0667: 1,					
--	--	--	--	--	--	--	--	--

HAZAY40	1061765	943	3 - 1631	3118	Ser-24 to Lys-55, Glu-67 to Ala-72, Leu-74 to Pro-88, Lys-104 to Tyr-119, Ile-121 to Pro-132, Ser-138 to Glu-148, Asp-158 to Pro-167, Glu-177 to Asp-203, Ser-208 to Gln-218, Pro-221 to Pro-227, Gln-229 to Pro-236, Ser-246 to Asn-254, Pro-268 to Thr-279, Arg-281 to Thr-288, Pro-295 to Asp-301, Val-305 to Val-315, Ala-318 to Asn-344, Glu-351 to Pro-366, Ala-415 to Gly-424, Val-470 to Ser-475, Leu-480 to Gly-485, Pro-511 to Cys-522.	H0543: 1, H0423: 1, S0424: 1, S0452: 1, S0460: 1 and S0384: 1. L0439: 10, H0013: 7, L0438: 4, L0758: 4, L0599: 3, H0171: 2, H0632: 2, S0388: 2, T0010: 2, S0250: 2, H0553: 2, H0644: 2, L0662: 2, L0754: 2, L0747: 2, L0749: 2, L0779: 2, L0777: 2, L0591: 2, S0376: 1, S0045: 1, S0222: 1, H0461: 1, L0623: 1, H0244: 1, H0427: 1, S0280: 1, H0575: 1, H0036: 1, S0346: 1, H0327: 1, H0024: 1, H0051: 1, S0051: 1, H0039: 1, T0006: 1, H0383: 1, H0316: 1, S0036: 1, H0038: 1, H0268: 1, L0351: 1, H0280: 1, H0494: 1, L0769: 1, L0637: 1, L0646: 1, L0768: 1, L0649: 1, L0650: 1, L0805: 1, L0776: 1, L0659: 1, L0783: 1,		
---------	---------	-----	----------	------	--	--	--	--

HACMZ51	1061766	944	61 - 1617	3119	Ala-38 to Thr-45, Ser-70 to Asp-77, Ser-85 to Asp-90, Asp-139 to Gly-145, Ile-207 to Asp-213, Arg-229 to Met-234, Gly-259 to Ser-264, Ile-281 to Ser-288, Asp-337 to Leu-343, Gln-369 to Ile-376, Gly-429 to Ser-440, Gln-448 to Val-456, Gln-461 to Thr-474.	H0144: 1, H0690: 1, H0659: 1, H0660: 1, H0648: 1, S0330: 1, H0539: 1, S0037: 1, L0731: 1, L0608: 1, L0595: 1 and L0366: 1.		
						L0777: 21, L0439: 18, H0052: 15, S0010: 12, H0013: 11, L0770: 11, L0749: 11, H0144: 10, L0748: 10, L0754: 10, L0747: 10, H0521: 9, S0222: 8, S0051: 8, S0036: 8, L0659: 8, L0740: 8, L0752: 8, L0758: 8, L0595: 8, S0278: 7, S0440: 7, L0744: 7, L0592: 7, H0457: 6, H0623: 6, L0646: 6, H0547: 6, S0152: 6, L0601: 6, H0575: 5, S0049: 5, H0046: 5, L0471: 5, H0551: 5, L0664: 5, L0665: 5, H0520: 5, S3014: 5, S0260: 5, L0599: 5, H0556: 4, S6024: 4, S0418: 4, S0354: 4, S0360: 4, S0388: 4, H0615: 4,		

	S0038: 4, H0100: 4, S0344: 4, S0002: 4, L0764: 4, L0774: 4, S0027: 4, L0745: 4, L0759: 4, L0596: 4, S0196: 4, H0543: 4, H0717: 3, H0638: 3, S0420: 3, S0442: 3, S0358: 3, H0619: 3, S6026: 3, H0586: 3, H0486: 3, H0156: 3, H0599: 3, S0346: 3, L0157: 3, H0428: 3, H0622: 3, T0006: 3, H0031: 3, H0038: 3, H0529: 3, L0771: 3, L0766: 3, L0789: 3, L0438: 3, S0028: 3, L0750: 3, L0753: 3, L0731: 3, L0757: 3, L0366: 3, H0542: 3, L0600: 3, H0624: 2, H0171: 2, S0116: 2, H0483: 2, H0305: 2, L0005: 2, S0376: 2, S0408: 2, S0007: 2, S0046: 2, S0132: 2, S0300: 2, H0351: 2, H0261: 2, H0370: 2, H0438: 2, S0280: 2,					
--	--	--	--	--	--	--

				H0318: 2, S0474: 2, H0434: 2, H0596: 2, H0546: 2, H0009: 2, H0620: 2, H0051: 2, H0083: 2, S6028: 2, H0266: 2, H0286: 2, H0628: 2, H0090: 2, H0412: 2, H0494: 2, H0509: 2, H0130: 2, S0142: 2, S0426: 2, L0769: 2, L0638: 2, L0773: 2, L0662: 2, L0768: 2, L0657: 2, L0783: 2, L0809: 2, L0663: 2, S0052: 2, H0519: 2, S0328: 2, H0539: 2, H0696: 2, H0214: 2, S0404: 2, S0406: 2, H0631: 2, S0037: 2, L0751: 2, L0779: 2, H0445: 2, L0588: 2, L0361: 2, S0194: 2, L0411: 1, H0170: 1, H0265: 1, H0686: 1, H0685: 1, H0713: 1, H0294: 1, H0650: 1, H0341: 1, S0212: 1, S0282: 1, H0255: 1, H0663: 1, H0402: 1, S0356: 1,				
--	--	--	--	--	--	--	--	--

	S0444: 1, H0637: 1, H0580: 1, H0645: 1, H0393: 1, H0437: 1, H0549: 1, H0613: 1, H0331: 1, H0574: 1, H0632: 1, S0414: 1, L0622: 1, H0250: 1, H0069: 1, H0635: 1, H0427: 1, H0097: 1, T0082: 1, H0390: 1, H0581: 1, H0421: 1, H0310: 1, H0597: 1, H0231: 1, H0327: 1, H0544: 1, H0178: 1, L0158: 1, H0569: 1, H0123: 1, H0050: 1, H0024: 1, H0373: 1, H0201: 1, T0010: 1, H0179: 1, H0271: 1, H0288: 1, S0214: 1, H0688: 1, H0039: 1, L0483: 1, H0553: 1, H0165: 1, H0598: 1, H0591: 1, H0634: 1, H0264: 1, H0056: 1, L0351: 1, T0041: 1, T0042: 1, H0560: 1, H0625: 1, S0464: 1, S0438: 1, S0150: 1, H0633: 1, H0646: 1,				
--	--	--	--	--	--

S0144: 1, H0538: 1, S0210: 1, L0369: 1, L0763: 1, L0371: 1, L0796: 1, L0761: 1, L0667: 1, L0373: 1, L0765: 1, L0649: 1, L5569: 1, L0386: 1, L0803: 1, L0775: 1, L0378: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0518: 1, L0383: 1, L0382: 1, L0792: 1, L0532: 1, H0725: 1, H0691: 1, T0068: 1, S0126: 1, H0689: 1, H0690: 1, H0435: 1, H0658: 1, H0670: 1, H0660: 1, S0330: 1, S0380: 1, H0710: 1, S0454: 1, H0522: 1, H0704: 1, H0555: 1, H0478: 1, H0627: 1, H0727: 1, S3012: 1, S0206: 1, S0032: 1, L0741: 1, L0746: 1, L0756: 1, L0780: 1, L0755: 1, S0031: 1, S0436: 1, L0589: 1, L0485: 1, L0608: 1, L0594: 1,						
--	--	--	--	--	--	--

HUXAL63	1061790	945	2 - 1300	3120	Thr-6 to Leu-24, Gly-87 to Ala-92, Ser-103 to Ser-118, Asp-127 to Asn-135, Gln-141 to Phe-147, Thr-149 to Arg-159, Phe-330 to Ala-338, Pro-390 to Thr-398.	S0011: 1, S0026: 1, S0192: 1, H0423: 1 and H0352: 1. L0794: 6, L0766: 6, L0758: 6, L0665: 4, L0439: 4, L0779: 4, H0590: 3, L0598: 3, L0763: 3, L0666: 3, H0648: 3, L0754: 3, L0362: 3, H0506: 3, H0657: 2, H0661: 2, S0438: 2, L0646: 2, L0803: 2, L0375: 2, L0806: 2, L0809: 2, L0438: 2, L0744: 2, L0740: 2, L0747: 2, L0731: 2, S0434: 2, L0589: 2, H0713: 1, S0114: 1, H0583: 1, H0255: 1, H0669: 1, H0663: 1, S0222: 1, H0497: 1, L0021: 1, L0022: 1, H0036: 1, H0052: 1, L0163: 1, H0239: 1, H0179: 1, H0615: 1, H0553: 1, H0163: 1, H0038: 1, H0100: 1, S0440: 1, S0422: 1, S0426: 1, UNKWN: 1, L5575: 1.		
---------	---------	-----	----------	------	---	---	--	--

HLCLX57	1061886	946	3 - 953	3121	Lys-20 to Glu-27.	L0644: 1, L0764: 1, L0662: 1, L0651: 1, L0653: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0783: 1, L0793: 1, L0664: 1, S0374: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, S0454: 1, S0406: 1, S0028: 1, L0750: 1, L0752: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1 and L0597: 1.	14q24	107970, 115650, 182600, 602091
---------	---------	-----	---------	------	-------------------	---	-------	---

HMALF63	1061935	947	318 - 1130	3122	Gly-13 to Arg-19, Glu-28 to Glu-64, Glu-81 to Asp-88, Leu-103 to Asn-109, Ile-132 to Gln-144, Glu-148 to Leu-157, Met-188 to Tyr-193, Ser-223 to Thr-230.	H0421: 1, H0309: 1, H0545: 1, H0620: 1, H0024: 1, H0028: 1, S0003: 1, H0628: 1, H0090: 1, H0040: 1, H0269: 1, H0412: 1, H0413: 1, S0210: 1, L0763: 1, L0794: 1, L0804: 1, L0776: 1, L0657: 1, H0690: 1, H0658: 1, H0670: 1, H0660: 1, H0648: 1, S0378: 1, H0696: 1, S0406: 1, S0118: 1, S0037: 1, S0027: 1, S0028: 1, L0744: 1, L0779: 1, L0758: 1 and S0011: 1.	2p25.2- p25.1	
---------	---------	-----	------------	------	--	---	------------------	--

965

L0591: 3, L0592: 3, L0593: 3, H0423: 3, H0624: 2, S0218: 2, H0341: 2, H0663: 2, S0356: 2, S0278: 2, H0587: 2, H0497: 2, H0574: 2, H0485: 2, H0486: 2, T0115: 2, H0046: 2, H0014: 2, S0628: 2, S0003: 2, H0615: 2, H0622: 2, T0023: 2, H0316: 2, S0036: 2, H0135: 2, H0264: 2, H0623: 2, S0150: 2, H0529: 2, L0775: 2, L0806: 2, L0783: 2, L0809: 2, L0665: 2, L0602: 2, H0518: 2, L0750: 2, H0445: 2, L0599: 2, L0608: 2, L0594: 2, L0366: 2, S0011: 2, H0506: 2, H0170: 1, S0258: 1, T0002: 1, S0040: 1, H0583: 1, H0656: 1, S0116: 1, S0212: 1, S0035: 1, S0400: 1, H0346: 1, H0669: 1, H0671: 1, S0418: 1, S0420: 1,						
--	--	--	--	--	--	--

			S0360: 1, H0675: 1, S0045: 1, H0393: 1, H0437: 1, S6014: 1, H0370: 1, H0403: 1, H0438: 1, L0586: 1, T0109: 1, H0635: 1, H0427: 1, H0156: 1, H0042: 1, H0590: 1, H0004: 1, H0318: 1, S0049: 1, T0110: 1, H0544: 1, H0457: 1, N0006: 1, H0562: 1, H0024: 1, H0373: 1, L0163: 1, S0388: 1, T0010: 1, H0083: 1, H0630: 1, H0179: 1, H0188: 1, H0288: 1, S0250: 1, H0252: 1, T0006: 1, H0628: 1, L0455: 1, L0456: 1, H0634: 1, H0268: 1, H0413: 1, T0004: 1, H0100: 1, L0351: 1, L0435: 1, L0370: 1, T0041: 1, H0560: 1, H0561: 1, S0382: 1, S0450: 1, H0509: 1, H0207: 1, H0633: 1, H0647: 1, S0144: 1, S0208: 1, S0422: 1,					
--	--	--	--	--	--	--	--	--

HACMR36	1062057	948	1 - 1515	3123	Gly-20 to Gly-25, Leu-47 to Pro-56, Gly-63 to Glu-68, Glu-87 to Ala-99.	L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0646: 1, L0521: 1, L0768: 1, L0774: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0655: 1, L0657: 1, L0526: 1, L0664: 1, S0428: 1, S0374: 1, L0352: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0414: 1, H0659: 1, H0670: 1, H0672: 1, H0651: 1, S0328: 1, S0378: 1, S0380: 1, H0134: 1, H0555: 1, H0436: 1, H0478: 1, H0627: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, L0759: 1, L0684: 1, H0668: 1, H0665: 1, H0136: 1 and H0677: 1.			
						L0717: 3, H0618: 2, H0617: 2, L5566: 2, L0649: 2, L0666: 2, H0685: 1, H0716: 1, H0306: 1, S0360: 1, S0045: 1, S0222: 1, H0370: 1, H0392: 1,			

							H0427: 1, H0622: 1, L0640: 1, L0763: 1, L0637: 1, L5565: 1, L0373: 1, L0641: 1, L0648: 1, L0364: 1, L0766: 1, L0663: 1, L0665: 1, H0690: 1, L0748: 1, L0779: 1, L0599: 1 and L0595: 1.			
HAOSM08	1062079	949	80 - 2338	3124			L0794: 13, L0803: 9, 5 H0013: 7, L0438: 6, L0758: 6, T0010: 5, L0439: 5, L0591: 5, H0413: 4, H0144: 4, L0742: 4, L0751: 4, L0731: 4, S0007: 3, H0038: 3, H0494: 3, L0755: 3, L0601: 3, H0170: 2, H0686: 2, S0418: 2, S0408: 2, S0046: 2, H0619: 2, H0050: 2, S6028: 2, H0268: 2, L0598: 2, L0770: 2, L0800: 2, L0764: 2, L0659: 2, L0666: 2, L0663: 2, L0665: 2, H0547: 2, H0658: 2, S0152: 2, L0741: 2, L0754: 2, L0747: 2, L0750: 2,			

L0779: 2, L0752: 2, L0759: 2, L0588: 2, L0592: 2, L0411: 1, H0624: 1, S0001: 1, S0420: 1, H0329: 1, S0045: 1, S0132: 1, S6026: 1, H0437: 1, H0592: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0251: 1, T0115: 1, H0046: 1, H0569: 1, H0014: 1, H0373: 1, H0266: 1, S0250: 1, H0328: 1, H0622: 1, H0032: 1, H0616: 1, H0412: 1, H0056: 1, H0623: 1, S0386: 1, H0100: 1, L0351: 1, L0564: 1, H0509: 1, L4747: 1, L0644: 1, L0804: 1, L0775: 1, L0375: 1, L0776: 1, L0809: 1, L0790: 1, L0532: 1, H0520: 1, H0670: 1, S0146: 1, H0555: 1, S0028: 1, L0748: 1, L0740: 1, L0777: 1, L0753: 1, L0757: 1, H0445: 1, L0605: 1,	
--	--

HTEFM89	1062084	950	380 - 1234	3125	Ala-18 to His-32, Tyr-51 to Phe-56, Asn-100 to Arg-106, His-140 to Gly-153, Ser-167 to Gly-193, Ser-205 to Asp-214, Trp-237 to Thr-244, Asp-268 to Gln-274.	S0242: 1 and S0276: 1. H0038: 4, L0758: 2, S0040: 1, H0125: 1, S0420: 1, H0622: 1, H0634: 1, H0616: 1, H0623: 1, T0042: 1 and H0560: 1.		
HCHAK72	1062123	951	2 - 1183	3126	Pro-18 to Thr-25, Ser-36 to Tyr-45, Met-68 to Tyr-77, Gly-148 to Ser-154, Ser-234 to Gly-242, Asn-267 to Asp- 274, Cys-337 to Gly-342, Met-388 to Thr-394.	AR039: 25, AR089: 23, AR096: 18, AR053: 16, AR060: 15, AR033: 14, AR055: 10, AR104: 9, AR061: 7 L0766: 3, S0356: 2, S0222: 2, H0266: 2, H0616: 2, S0422: 2, L0794: 2, L0655: 2, L0664: 2, H0672: 2, L0777: 2, L0731: 2, H0422: 2, H0171: 1, H0657: 1, S0116: 1, H0341: 1, H0483: 1, H0449: 1, S0376: 1, S0045: 1, H0587: 1, H0497: 1, H0421: 1, H0327: 1, H0057: 1, H0014: 1, H0375: 1, S6028: 1, S0003: 1, S0214: 1, H0328: 1,		

						H0644: 1, H0032: 1, H0090: 1, H0038: 1, H0087: 1, H0264: 1, H0268: 1, H0529: 1, L0762: 1, L0638: 1, L0771: 1, L0521: 1, L0803: 1, L0657: 1, L0659: 1, L0783: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, S0176: 1, S0406: 1, L0439: 1, L0779: 1 and L0758: 1.		
HPAME12	1062139	952	2 - 1654	3127	Phe-16 to Arg-24, Pro-31 to Thr-41, Leu-50 to Gly-63, Leu-132 to Asp-138, Gln-152 to Val-160, Gln-178 to Lys-188, Leu-196 to Glu-205, Pro-207 to Lys-213, Gly-221 to Ala-228, Glu-239 to Phe-245, Asp-257 to Ser-264, Ala-301 to Tyr-306, Phe-327 to Trp-334, Lys-371 to Lys-384, Glu-419 to Ala-426, Ile-447 to Phe-454, Val-475 to Thr-483,	H0422: 4, S0222: 3, L0775: 3, L0754: 3, H0171: 2, H0013: 2, H0635: 2, H0024: 2, L0493: 2, L0518: 2, L0438: 2, H0522: 2, L0740: 2, L0756: 2, L0755: 2, L0731: 2, L0757: 2, S0260: 2, H0170: 1, S0402: 1, S0376: 1, H0580: 1, H0574: 1, H0486: 1, L0021: 1, H0098: 1, H0036: 1, H0545: 1, S0048: 1, H0622: 1, H0031: 1, H0644: 1, H0032: 1, H0598: 1,	10	

					Leu-516 to Gln-522, Glu-528 to Asn-537.	S0036: 1, H0163: 1, H0591: 1, H0494: 1, H0641: 1, L0762: 1, L0646: 1, L0662: 1, L0794: 1, L0804: 1, L0783: 1, L0809: 1, L0666: 1, H0144: 1, S0374: 1, H0547: 1, H0689: 1, H0682: 1, S0328: 1, H0518: 1, S0152: 1, S3014: 1, S0032: 1, L0744: 1, L0747: 1, L0750: 1, L0777: 1, H0595: 1, L0599: 1, H0667: 1 and H0423: 1.		
HPCQK37	1062260	953	3 - 830	3128	Ser-93 to Pro-99, Asn-214 to Gly-220, Thr-255 to Ala-268.	S0136: 47, L0769: 10, L0439: 7, L0750: 7, H0620: 5, L0776: 5, H0519: 5, L0740: 5, L0752: 5, H0341: 4, H0545: 4, S0440: 4, L0805: 4, L0509: 4, L0809: 4, L0666: 4, L0748: 4, S0436: 4, H0624: 3, H0265: 3, H0556: 3, S0418: 3, H0393: 3, L0717: 3, H0266: 3, S0422: 3, L0764: 3, L0659: 3,		

H0696: 3, L0755: 3, L0731: 3, S0434: 3, S0026: 3, S0356: 2, S0358: 2, S0360: 2, S0045: 2, H0587: 2, H0574: 2, T0060: 2, S0010: 2, H0046: 2, H0510: 2, H0032: 2, H0673: 2, H0169: 2, H0674: 2, H0135: 2, H0038: 2, H0413: 2, H0646: 2, L0646: 2, L0766: 2, L0803: 2, L5622: 2, L0665: 2, S0374: 2, H0659: 2, H0648: 2, S0328: 2, S0378: 2, S0380: 2, S3014: 2, L0756: 2, L0777: 2, L0758: 2, L0588: 2, L0589: 2, L0592: 2, L0594: 2, L0603: 2, H0543: 2, H0171: 1, S0040: 1, H0717: 1, H0295: 1, T0049: 1, L0002: 1, H0657: 1, H0346: 1, H0255: 1, H0664: 1, H0305: 1, H0589: 1, S0420: 1, S0442: 1, S0376: 1, S0444: 1,
--

			H0675: 1, S0410: 1, H0730: 1, S0046: 1, S0132: 1, H0592: 1, H0586: 1, H0333: 1, H0642: 1, H0331: 1, H0632: 1, H0486: 1, H0013: 1, H0427: 1, L0021: 1, H0575: 1, H0590: 1, S0182: 1, H0085: 1, H0596: 1, T0110: 1, H0546: 1, L0157: 1, H0572: 1, H0571: 1, H0024: 1, L0695: 1, H0373: 1, L0163: 1, S6028: 1, S0003: 1, H0252: 1, H0328: 1, H0622: 1, T0006: 1, H0031: 1, H0553: 1, H0628: 1, H0166: 1, S0364: 1, L0455: 1, H0124: 1, H0598: 1, H0400: 1, H0163: 1, H0090: 1, H0616: 1, H0551: 1, T0067: 1, H0433: 1, H0100: 1, T0041: 1, H0625: 1, H0561: 1, S0448: 1, S0450: 1, S0438: 1, H0509: 1, H0132: 1, H0647: 1,					
--	--	--	--	--	--	--	--	--

HCE4F10	1062309	954	977 - 3	3129	Glu-27 to Thr-34, His-253 to Tyr-281, Glu-290 to Asp-295.	H0649: 1, S0208: 1, H0529: 1, L0770: 1, L0637: 1, L0772: 1, L0372: 1, L0800: 1, L0374: 1, L0662: 1, L0649: 1, L0388: 1, L0774: 1, L0775: 1, L0375: 1, L0653: 1, L0628: 1, L0513: 1, L0526: 1, L0518: 1, L0382: 1, L0663: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0666: 1, S0330: 1, S0044: 1, S0406: 1, H0436: 1, H0479: 1, S0037: 1, S0206: 1, L0747: 1, L0780: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, H0707: 1, L0485: 1, L0608: 1, L0595: 1, H0667: 1, L0097: 1, S0196: 1 and S0446: 1.		
						H0052: 3, H0050: 2, H0650: 1, H0657: 1, S0212: 1, S0358: 1, S0045: 1, H0586: 1,		

									H0575: 1, H0046: 1, H0292: 1, H0328: 1, H0622: 1, H0135: 1, L0766: 1, S0374: 1, H0648: 1, H0539: 1, H0521: 1, L0750: 1, L0591: 1, H0542: 1 and S0460: 1.			
HBCBE63	1062328	955	32 - 790	3130	Ser-4 to Gln-21, His-33 to Pro-38, Arg-80 to Ser-87, Lys-133 to Tyr-139, Gln-162 to Phe-168, Ala-173 to Lys-179, Glu-198 to Glu-204, Ala-212 to Asn-218, Ser-238 to Arg-245.				S0358: 1, H0370: 1, H0270: 1, H0122: 1, H0253: 1, H0545: 1, H0046: 1, H0015: 1, L0669: 1, H0617: 1, H0032: 1, H0038: 1, H0616: 1, H0658: 1, S0436: 1 and L0596: 1.			
HSSJO19	1062346	956	409 - 248	3131	Arg-1 to Pro-12, Leu-29 to Gln-41.				L0439: 5, L0764: 2, H0660: 2, L0749: 2, S0031: 2, L0591: 2, H0486: 1, L0471: 1, H0424: 1, H0135: 1, L0763: 1, L0769: 1, L0639: 1, L0771: 1, L0375: 1, L0784: 1, L0776: 1, H0478: 1 and L0747: 1.			
HE8NQ23	1062369	957	574 - 1419	3132					AR060: 2, AR061: 2, AR055: 1, AR096: 1, AR033: 1, AR039: 1,			

							AR089: 0, AR104: 0, AR053: 0 L0665: 12, L0666: 5, L0794: 4, L0664: 4, L0759: 4, H0574: 3, L0657: 3, H0031: 2, H0553: 2, H0624: 1, H0632: 1, H0013: 1, H0328: 1, L0598: 1, L0369: 1, L0645: 1, L0662: 1, H0144: 1, H0660: 1 and S0406: 1.		
HTELJ95	1062431	958	95 - 949	3133	Ala-24 to Glu-29, Glu-91 to Arg-110, Arg-115 to Trp-124, Ser-126 to Asp-140, Tyr-156 to Phe-161, Lys-209 to Asp-215, Gly-224 to Thr-230, Pro-254 to Phe-261, Thr-266 to Asp-285.		L0766: 5, L0748: 5, L0362: 4, L0755: 3, H0170: 2, H0265: 2, H0328: 2, H0494: 2, L0776: 2, L0747: 2, L0750: 2, L0731: 2, L0758: 2, H0650: 1, H0657: 1, S0001: 1, H0638: 1, S0418: 1, H0329: 1, S0007: 1, L0717: 1, T0039: 1, L0021: 1, H0097: 1, H0544: 1, L0163: 1, S0388: 1, S0051: 1, H0266: 1, S0003: 1, S0214: 1, H0615: 1, H0616: 1, H0269: 1, H0623: 1, T0041: 1,		

							T0042: 1, H0538: 1, S0422: 1, L0763: 1, L0794: 1, L0803: 1, L0375: 1, H0144: 1, H0659: 1, S0330: 1, L0756: 1, L0780: 1, L0752: 1, L0588: 1, L0592: 1, H0668: 1, H0422: 1, L0697: 1 and S0384: 1.		
HTPCP50	1062435	959	3 - 2138	3134	Pro-9 to Lys-24, Ser-39 to Lys-46, Asp-80 to Asn-86, Gln-89 to Ser-103, Phe-112 to Thr-123, Gln-260 to Ser-272, Asp-283 to His-289, Pro-341 to Glu-351, Met-362 to Thr-368, Arg-382 to Arg-389, Asn-396 to Gly-410, Tyr-415 to His-427, Ile-477 to Lys-486, Tyr-575 to Thr-580, Lys-692 to Leu-700.	AR096: 4, AR055: 4, AR053: 3, AR089: 2, AR033: 2, AR052: 2, AR061: 2, AR060: 2, AR104: 2, AR039: 1, L0747: 5, H0623: 4, S0212: 3, S0045: 3, H0586: 3, H0427: 3, S0028: 3, L0439: 3, L0749: 3, L0599: 3, L0415: 2, S0046: 2, H0553: 2, H0412: 2, L0662: 2, L0659: 2, S0146: 2, H0713: 1, H0716: 1, T0049: 1, H0662: 1, S0356: 1, H0722: 1, H0486: 1, S0280: 1, H0575: 1, H0024: 1, H0375: 1, H0266: 1, H0428: 1,			

HKGBU67	1062496	960	779 - 201	3135	Gly-1 to His-6, Thr-55 to Gln-61, Cys-63 to Asp-70, Gly-132 to Gly-137, Lys-146 to Gly-152, Pro-174 to Lys-182.	H0039: 1, T0006: 1, H0032: 1, H0090: 1, H0268: 1, H0413: 1, H0509: 1, L0375: 1, L0789: 1, L0666: 1, S0126: 1, H0670: 1, H0539: 1, H0521: 1, S0032: 1, L0754: 1, L0779: 1, L0759: 1, H0444: 1 and S0434: 1.		
						L0777: 6, S0358: 3, L0372: 3, L0750: 3, L0755: 3, S0422: 2, L0766: 2, L0663: 2, S0152: 2, L0779: 2, L0588: 2, L0605: 2, H0685: 1, H0341: 1, H0255: 1, S0376: 1, S0410: 1, H0592: 1, H0497: 1, H0009: 1, L0471: 1, H0373: 1, S0214: 1, H0615: 1, H0090: 1, H0494: 1, H0509: 1, H0538: 1, L0769: 1, L0761: 1, L0646: 1, L0764: 1, L0771: 1, L0773: 1, L0794: 1, L0774: 1, L0775: 1, L0655: 1, L0789: 1, L0665: 1,	11	

HFKIT82	1062544	961	2 - 1663	3136	Pro-10 to Val-15, Ala-42 to Lys-48, Asn-99 to Glu-104, Ile-114 to Gln-119, Asp-130 to Gly-137, Leu-167 to Tyr-175, Pro-187 to Glu-192, Arg-219 to Pro-224, Ala-233 to Thr-240.	H0697: 1, H0520: 1, H0435: 1, S0044: 1, H0555: 1, L0747: 1, L0749: 1, L0753: 1, L0759: 1, H0445: 1, L0581: 1, H0423: 1 and H0712: 1.		
HE2LW42	1062574	962	1300 - 1079	3137		AR039: 4, AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR053: 2, AR104: 2, AR061: 1, AR033: 1 L0439: 6, H0620: 4, L0758: 2, S0040: 1, H0661: 1, H0619: 1, H0549: 1, H0587: 1, H0013: 1, L0021: 1, H0230: 1, H0373: 1, H0135: 1, L0770: 1, L0769: 1, L0776: 1, L0659: 1, L0783: 1, H0144: 1, H0519: 1, H0593: 1, H0682: 1, H0659: 1, L0751: 1, L0753: 1 and L0759: 1. H0624: 5, L0748: 4, S0222: 3, H0441: 2, H0013: 2, H0144: 2, L0745: 2, H0170: 1, H0171: 1, S0007: 1.		

HOGCE44	1062586	963	141 - 2561	3138	Glu-46 to Ser-59, Asn-85 to Ser-98.	H0156: 1, L0471: 1, H0051: 1, H0604: 1, H0135: 1, S0386: 1, L0521: 1, L0776: 1 and L0754: 1. L0743: 7, L0731: 7, H0024: 5, H0264: 5, H0547: 5, L0439: 5, L0756: 5, L0764: 4, L0777: 4, L0752: 4, H0622: 3, H0163: 3, S0386: 3, H0529: 3, L0769: 3, L0809: 3, H0144: 3, H0435: 3, L0748: 3, L0747: 3, S0412: 3, S0040: 2, S0116: 2, H0341: 2, S0358: 2, S0444: 2, S0360: 2, H0549: 2, H0013: 2, H0036: 2, S0010: 2, H0318: 2, S0474: 2, H0050: 2, H0083: 2, H0266: 2, H0615: 2, T0006: 2, H0031: 2, H0644: 2, H0135: 2, S0002: 2, L0770: 2, L0771: 2, L0649: 2, L0803: 2, L0776: 2, L0438: 2, H0520: 2, H0539: 2,	20p13	192340, 234200
---------	---------	-----	------------	------	--	---	-------	-------------------

	H0518: 2, S0404: 2, S3014: 2, S0028: 2, L0741: 2, L0751: 2, L0750: 2, S0434: 2, L0605: 2, L0591: 2, L0362: 2, H0624: 1, H0171: 1, H0265: 1, S6024: 1, S0134: 1, H0583: 1, L0414: 1, S0282: 1, H0402: 1, S0356: 1, S0442: 1, S0376: 1, S0132: 1, H0619: 1, L0717: 1, H0437: 1, H0550: 1, H0600: 1, H0587: 1, H0486: 1, T0114: 1, H0635: 1, S0280: 1, H0042: 1, H0575: 1, H0590: 1, T0048: 1, H0581: 1, H0052: 1, H0596: 1, H0009: 1, L0471: 1, T0010: 1, S6028: 1, H0188: 1, H0428: 1, L0483: 1, H0553: 1, H0032: 1, H0674: 1, H0124: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, H0616: 1, H0551: 1, H0268: 1, H0623: 1,	
--	--	--

HOVJJ72	1062626	964	547 - 1782	3139	His-30 to His-35.	H0100: 1, H0560: 1, S0142: 1, H0538: 1, S0422: 1, S0426: 1, L0762: 1, L0763: 1, L0638: 1, L0761: 1, L0772: 1, L0768: 1, L0794: 1, L0766: 1, L0775: 1, L0375: 1, L0655: 1, L0783: 1, L0519: 1, L0789: 1, L0791: 1, L0666: 1, L0664: 1, S0374: 1, S0126: 1, H0689: 1, H0659: 1, H0521: 1, S0176: 1, S0406: 1, H0436: 1, L0759: 1, S0031: 1, S0260: 1, S0436: 1, L0608: 1, S0011: 1, S0242: 1, S0194: 1, S0276: 1, H0542: 1 and S0460: 1.	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400,
---------	---------	-----	------------	------	-------------------	--	-------------------	---

								H0428: 1, H0163: 1, H0646: 1, L0770: 1, L0769: 1, L0637: 1, L0772: 1, L0774: 1, L0378: 1, L0806: 1, L0663: 1, S0330: 1, H0539: 1, S0190: 1, H0540: 1, L0744: 1, L0748: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, S0276: 1 and S0424: 1.		172400, 173850, 180901, 180901, 207750, 221770, 248600, 258501, 600918, 602716
HODBT14	1062628	965	3 - 326	3140	Gln-1 to Glu-8, Ser-17 to Asn-23, Glu-48 to Leu-54, Asn-78 to Ser-83.			H0328: 2 and H0581: 1.		
HBOEB83	1062629	966	1 - 1392	3141	Ala-1 to Ser-6, Thr-16 to Gln-23, Pro-28 to Asn-34, Glu-43 to Cys-49, Asp-95 to Gly-100.			H0328: 9, L0659: 7, L0662: 6, H0135: 4, L0750: 4, S0360: 3, H0329: 3, H0373: 3, L0375: 3, L0744: 3, H0392: 2, H0046: 2, S0364: 2, H0163: 2, H0100: 2, L0743: 2, S0356: 1, S0222: 1, H0486: 1, H0618: 1, H0439: 1, L0471: 1, S0362: 1, H0038: 1, L0520: 1, L0769: 1, L0637: 1, L0650: 1,	5q13	126060, 143200, 143200, 181510, 253200, 268800, 268800, 600354, 600354, 600354

HODCT96	1062631	967	2 - 541	3142	Lys-1 to Glu-7, Thr-20 to Glu-35, Ser-54 to Glu-62.	<p>L0789: 1, L0664: 1, H0144: 1, H0690: 1, H0660: 1, S0028: 1, L0740: 1, L0759: 1, L0589: 1, S0242: 1 and H0352: 1.</p> <p>AR039: 26, AR033: 17, AR104: 17, AR052: 15, AR053: 15, AR096: 14, AR060: 14, AR089: 13, AR055: 12, AR061: 7</p> <p>H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2,</p>		
---------	---------	-----	---------	------	---	---	--	--

L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, S0132: 1, H0411: 1, H0550: 1, S0222: 1, H0441: 1, L0477: 1, L0021: 1, S0346: 1, T0048: 1, H0309: 1, H0009: 1, H0172: 1, L0483: 1, H0031: 1, H0628: 1, H0673: 1, H0674: 1, H0040: 1, H0551: 1, H0412: 1, T0004: 1, H0102: 1, L0351: 1, H0280: 1, H0560: 1, H0633: 1, S0344: 1, L0762: 1, L0501: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0776: 1, L0656: 1, L0783: 1, L0790: 1, L2269: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0435: 1, H0660: 1, H0672: 1,
--

									S0330: 1, S0406: 1, H0576: 1, L0742: 1, L0439: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1, L0755: 1, L0731: 1, S0031: 1, H0445: 1, L0587: 1, L0592: 1, L0485: 1, L0595: 1, L0601: 1, H0668: 1, S0192: 1 and S0194: 1.			
HTXJE60	1062655	968	60 - 1124	3143	Asp-32 to Leu-43, Leu-47 to Arg-53, Glu-95 to Phe-102, Leu-123 to Val-130, Leu-146 to Gly-154, Asp-186 to Glu-192, Glu-246 to Ser-255, Asp-296 to Arg-302, Ser-334 to Ala-347.				S0360: 2, H0266: 2, S0330: 2, L0748: 2, H0556: 1, S0442: 1, S0358: 1, S0046: 1, L0471: 1, H0024: 1, H0634: 1, H0494: 1, H0560: 1, L0800: 1, L0803: 1, H0593: 1, H0435: 1, H0651: 1, H0521: 1, H0522: 1, S0406: 1, L0747: 1 and S0452: 1.			
HUSIQ62	1062679	969	83 - 814	3144	Thr-1 to Glu-10, Arg-20 to Leu-26, Gly-37 to Ser-49, Cys-58 to Ser-69, Lys-79 to Lys-85, Ser-88 to Glu-96, Ala-99 to Ser-135.				S0422: 8, H0710: 8, S0116: 7, L0471: 7, H0542: 7, H0580: 6, T0042: 6, H0547: 6, H0659: 6, L0748: 6, H0486: 5, H0543: 5, H0656: 4, H0341: 4.	4q31	107250, 181600, 189800, 266300	

Ser-142 to Glu-151, Ser-169 to Lys-192, Ala-199 to Glu-244.	S0360: 4, S0440: 4, S0406: 4, L0747: 4, S0444: 3, H0318: 3, H0581: 3, H0428: 3, H0551: 3, L0667: 3, L0662: 3, L0766: 3, L0655: 3, L0666: 3, L0749: 3, L0758: 3, L0362: 3, H0668: 3, T0002: 2, H0650: 2, H0662: 2, H0393: 2, H0497: 2, H0013: 2, H0266: 2, H0412: 2, S0150: 2, H0529: 2, L0646: 2, L0375: 2, L0606: 2, H0144: 2, H0698: 2, H0521: 2, L0740: 2, L0750: 2, L0588: 2, L0605: 2, L0608: 2, S0192: 2, H0170: 1, L0615: 1, H0686: 1, H0685: 1, S0040: 1, H0663: 1, H0402: 1, H0449: 1, H0459: 1, S0418: 1, S0420: 1, S0358: 1, S0376: 1, H0369: 1, H0069: 1, L0021: 1, T0082: 1, H0421: 1, H0744: 1, H0251: 1,
---	--

H0457: 1, H0620: 1, H0350: 1, H0629: 1, H0375: 1, H0267: 1, H0252: 1, H0553: 1, S0366: 1, H0163: 1, H0090: 1, H0040: 1, H0264: 1, H0413: 1, L0475: 1, H0560: 1, H0561: 1, H0641: 1, H0538: 1, L0769: 1, L5575: 1, L0761: 1, L0373: 1, L0372: 1, L0800: 1, L0768: 1, L0364: 1, L0774: 1, L0806: 1, L0652: 1, L0657: 1, L0656: 1, L3872: 1, L5623: 1, L0789: 1, L0790: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0702: 1, H0699: 1, S0374: 1, H0723: 1, H0726: 1, H0520: 1, H0519: 1, S0126: 1, H0682: 1, H0683: 1, H0684: 1, H0660: 1, H0666: 1, S0328: 1, S0380: 1, H0696: 1, L0744: 1, L0779: 1, L0755: 1, H0445: 1,
--

							S0434: 1, L0591: 1 and S0026: 1.			
HPCTC48	1062686	970	206 - 361	3145	Arg-1 to Gly-14, Glu-24 to Ile-34, Glu-40 to Phe-52.		H0659: 1 and L0758: 1.			
HKBAK29	1062718	971	945 - 1562	3146	Glu-16 to Ser-23, Tyr-32 to Ala-44, Leu-56 to Ala-70, Ser-85 to Thr-91, Glu-102 to Lys-108, Glu-116 to Leu-122, Leu-136 to Leu-150, Glu-165 to Leu-170, Val-183 to Asp-191.		AR096: 7, AR104: 7, AR089: 5, AR033: 4, AR060: 4, AR053: 2, AR061: 1, AR055: 0, AR039: 0 S0358: 6, L0659: 6, L0805: 3, L0655: 3, L0665: 3, H0670: 3, L0755: 3, S0026: 3, S0360: 2, S0003: 2, L0649: 2, L0774: 2, L0776: 2, L0666: 2, L0663: 2, L0777: 2, L0758: 2, H0624: 1, H0170: 1, T0002: 1, H0656: 1, H0638: 1, H0637: 1, L0717: 1, S0278: 1, S0222: 1, H0497: 1, H0642: 1, H0574: 1, H0632: 1, H0486: 1, H0156: 1, L0021: 1, H0036: 1, H0251: 1, H0046: 1, L0157: 1, L0471: 1, H0083: 1, S0214: 1,			

								H0039: 1, H0644: 1, H0165: 1, H0674: 1, H0090: 1, H0040: 1, H0412: 1, H0413: 1, H0625: 1, H0529: 1, L0646: 1, L0768: 1, L0766: 1, L0803: 1, L0775: 1, L0784: 1, L0634: 1, L0783: 1, H0520: 1, S0126: 1, H0689: 1, H0683: 1, H0666: 1, H0648: 1, H0539: 1, H0521: 1, S0044: 1, S3014: 1, L0744: 1, L0756: 1, L0752: 1, L0757: 1, L0592: 1, L0485: 1, H0423: 1, H0422: 1 and H0506: 1.			
HPMCX26	1062743	972	329 - 682	3147	Ser-12 to Trp-23, Tyr-25 to Tyr-32, Pro-34 to Phe-41.			L0599: 2, H0271: 1, H0031: 1 and H0623: 1.			
HFKHF51	1062785	973	3 - 1910	3148				L0747: 4, H0620: 3, S0051: 3, H0424: 3, L0749: 3, L0756: 3, L0755: 3, H0295: 2, S0300: 2, H0333: 2, H0024: 2, H0100: 2, L0794: 2, L0774: 2, H0672: 2, L0744: 2,			

HUCPE28	1062795	974	71 - 1090	3149	Lys-16 to Gly-23, Glu-33 to Val-43, Ser-55 to Ala-67, Gln-82 to Pro-97, Thr-108 to Gln-124, Pro-151 to Glu-157, Leu-184 to Cys-194, Ala-218 to Pro-225, Pro-227 to Asp-243, Lys-304 to Ser-324.	AR096: 1, AR055: 1, AR089: 1, AR061: 0, AR060: 0, AR033: 0, AR052: 0, AR104: 0 L0766: 11, H0622: 5, H0716: 2, S0420: 2, L0769: 2, L0803: 2, L0779: 2, H0656: 1, H0484: 1, S0418: 1, S0444: 1, H0580: 1, H0730: 1, H0619: 1, H0411: 1, H0592: 1,	L0754: 2, L0777: 2, L0731: 2, L0759: 2, S0412: 2, S0420: 1, S0222: 1, S0005: 1, S0049: 1, H0320: 1, S0250: 1, H0213: 1, H0417: 1, H0068: 1, L0564: 1, H0494: 1, L0771: 1, L0803: 1, L0775: 1, L0382: 1, L0809: 1, L0367: 1, L0787: 1, L0791: 1, L0793: 1, S0126: 1, H0690: 1, S0380: 1, L0612: 1, S3014: 1, L0779: 1, L0757: 1, S0260: 1, L0592: 1 and L0603: 1.		
---------	---------	-----	-----------	------	--	--	---	--	--

								H0427: 1, H0581: 1, H0052: 1, H0494: 1, L0774: 1, L0775: 1, L4501: 1, L0665: 1, S0374: 1, H0539: 1, S0404: 1, L0743: 1, L0745: 1, L0749: 1, L0777: 1, L0752: 1, S0436: 1 and L0097: 1.		
HPWAH30	1062840	975	1 - 708	3150	Phe-12 to Thr-19, Thr-26 to Cys-36, Thr-45 to Lys-50, Thr-54 to Gly-65, His-81 to Lys-88, Thr-110 to Lys-116, Phe-124 to Thr-131, Thr-138 to Lys-144, Ser-156 to Thr-162, His-165 to Lys-172, Asn-181 to Thr-187, Thr-194 to Lys-200, Thr-222 to Glu-230.			L0361: 2, H0170: 1, H0341: 1, H0663: 1, S0358: 1, S0045: 1, H0392: 1, H0586: 1, H0488: 1, H0509: 1, L0763: 1, L0665: 1, S0044: 1, L0779: 1 and L0593: 1.		
H6EDQ51	H6EDQ51R	976	91 - 303	3151						
HA5AU29	HA5AU29R	977	2 - 190	3152	Arg-1 to Cys-10.					
HACBX26	HACBX26R	978	2 - 124	3153						
HACMD23	HACMD23R	979	1 - 81	3154						
HACMF32	HACMF32R	980	52 - 342	3155						
HACMH54	HACMH54R	981	2 - 199	3156						
HACMH72	HACMH72R	982	2 - 478	3157				H0713: 5, H0684: 2,		

							H0685: 1, H0689: 1 and H0683: 1.			
HACMM26	HACMM26R	983	1 - 84	3158			H0685: 2, S0422: 1, L0766: 1 and L0526: 1.			
HACMM56	HACMM56R	984	221 - 451	3159						
HACMS55	HACMS55R	985	3 - 116	3160		Ser-9 to Phe-14.				
HACMX77	HACMX77R	986	3 - 419	3161		Glu-113 to Gly-118.	L0747: 25, S0358: 11, L0755: 9, L0740: 7, L0758: 7, L0775: 6, H0659: 6, L0742: 6, H0545: 5, S0406: 5, L0750: 5, L0756: 5, L0757: 5, L0362: 5, S0026: 5, H0580: 4, S0007: 4, H0413: 4, H0494: 4, S0440: 4, L0520: 4, L0769: 4, L0731: 4, H0543: 4, H0295: 3, H0341: 3, S0444: 3, H0581: 3, H0529: 3, L0770: 3, L0766: 3, L0382: 3, H0436: 3, L0744: 3, L0361: 3, H0686: 2, S0134: 2, S0218: 2, H0419: 2, H0484: 2, S0442: 2, S0360: 2, S0045: 2, H0486: 2, H0427: 2, L0021: 2, H0594: 2, T0023: 2,			

			H0063: 2, H0551: 2, H0560: 2, L0761: 2, L0773: 2, L0648: 2, L0521: 2, L0768: 2, L0653: 2, L0654: 2, L0776: 2, L0526: 2, S0374: 2, H0689: 2, H0670: 2, S0028: 2, S0206: 2, L0748: 2, L0439: 2, L0751: 2, L0754: 2, L0749: 2, L0752: 2, L0759: 2, H0445: 2, L0595: 2, H0171: 1, H0265: 1, H0685: 1, H0294: 1, H0657: 1, S0116: 1, S0212: 1, S0001: 1, H0192: 1, S0376: 1, H0676: 1, S0408: 1, H0431: 1, H0370: 1, H0392: 1, H0600: 1, H0586: 1, H0587: 1, H0643: 1, H0331: 1, H0632: 1, T0060: 1, T0082: 1, H0318: 1, S0049: 1, H0251: 1, H0309: 1, H0054: 1, H0327: 1, H0530: 1, H0544: 1, H0123: 1, H0050: 1, L0471: 1,					
--	--	--	--	--	--	--	--	--

					H0012: 1, H0620: 1, H0014: 1, H0373: 1, H0051: 1, H0510: 1, H0266: 1, S0022: 1, H0428: 1, H0169: 1, H0674: 1, S0036: 1, H0380: 1, H0412: 1, T0042: 1, L0475: 1, S0438: 1, H0509: 1, S0150: 1, H0647: 1, S0344: 1, S0210: 1, H0026: 1, L0506: 1, L0630: 1, L0646: 1, L0764: 1, L0771: 1, L0767: 1, L0522: 1, L0774: 1, L0375: 1, L0655: 1, L0661: 1, L0807: 1, L0657: 1, L0659: 1, L0384: 1, L0383: 1, L0519: 1, L0532: 1, L0666: 1, H0144: 1, T0068: 1, H0547: 1, H0519: 1, S0126: 1, H0682: 1, H0658: 1, S0378: 1, S0380: 1, H0525: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, S0392: 1, H0478: 1, H0631: 1, S3012: 1,
--	--	--	--	--	--

								L0779: 1, L0753: 1, S0434: 1, L0588: 1, L0485: 1, H0668: 1, H0653: 1, H0136: 1, S0196: 1, H0542: 1, H0422: 1 and H0008: 1.			
HACMZ45	HACMZ45R	987	3 - 245	3162		Thr-11 to Gly-16, Ser-49 to Ser-55, Ile-64 to Gly-69.					
HACND54	HACND54R	988	2 - 274	3163		Gln-1 to Lys-6.		H0617: 9, H0618: 4, H0253: 4, H0545: 4, L0774: 4, L0439: 4, L0750: 4, L0766: 3, L0803: 3, L0806: 3, L0748: 3, L0747: 3, L0777: 3, L0752: 3, L0758: 3, H0685: 2, H0333: 2, H0559: 2, H0100: 2, L0644: 2, L0542: 2, L0565: 2, L0438: 2, L0587: 2, S0040: 1, S0114: 1, H0589: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1, H0580: 1, H0351: 1, H0411: 1, S0278: 1, H0549: 1, S0222: 1, H0431: 1, H0438: 1, T0109: 1, H0427: 1, S0280: 1,			

HACND56	HACND56R	989	166 - 318	3164				L0021: 1, H0599: 1, H0318: 1, H0052: 1, H0544: 1, H0046: 1, H0024: 1, H0373: 1, H0051: 1, H0071: 1, T0010: 1, H0266: 1, H0615: 1, T0006: 1, H0604: 1, H0213: 1, H0553: 1, H0124: 1, H0087: 1, H0264: 1, H0412: 1, H0059: 1, H0561: 1, H0132: 1, H0647: 1, S0208: 1, L0598: 1, L0770: 1, L0769: 1, L0646: 1, L0642: 1, L0643: 1, L0764: 1, L0768: 1, L0375: 1, L0629: 1, L0783: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0665: 1, H0547: 1, H0519: 1, H0658: 1, H0660: 1, H0651: 1, S0330: 1, S0380: 1, S0146: 1, S0406: 1, H0576: 1, H0478: 1, L0749: 1, L0780: 1, L0755: 1, S0192: 1 and H0352: 1.		H0457: 4, S0474: 3,	
---------	----------	-----	-----------	------	--	--	--	--	--	---------------------	--

									H0616: 3, L0665: 3, L0794: 2, L0659: 2, L0779: 2, H0423: 2, H0171: 1, H0685: 1, H0675: 1, S0408: 1, H0013: 1, L0105: 1, H0581: 1, T0110: 1, S0214: 1, H0622: 1, H0561: 1, S0002: 1, H0529: 1, L0762: 1, L0667: 1, L0766: 1, L0805: 1, L0655: 1, L0658: 1, L0790: 1, H0702: 1, H0648: 1, H0521: 1, L0748: 1, L0777: 1, L0758: 1 and L0366: 1.			
HACNE40	HACNE40R	990	229 - 426	3165								
HACNF21	HACNF21R	991	3 - 542	3166	Asp-30 to Thr-37, Lys-81 to Glu-87.							
HACNF41	HACNF41R	992	2 - 91	3167	Ile-13 to Gly-18.							
HACNI47	HACNI47R	993	39 - 500	3168	Val-23 to Lys-30, Tyr-40 to Asn-50, Lys-63 to Lys-68, Leu-92 to Asn-102. 4	AR089: 18, AR060: 15, AR104: 14, AR096: 9, AR055: 6, AR061: 4						
HACNI86	HACNI86R	994	239 - 370	3169		L0754: 12, L0740: 8, L0731: 8, S0003: 6, L0649: 6, H0620: 5, S0214: 5, L0766: 5,						

	L0803: 5, L0805: 5, H0545: 4, L0748: 4, H0341: 3, S0444: 3, H0486: 3, H0012: 3, H0644: 3, H0551: 3, L0662: 3, L0653: 3, L0663: 3, S0126: 3, S0206: 3, L0779: 3, L0757: 3, L0758: 3, H0294: 2, S0212: 2, S0376: 2, S0360: 2, S0410: 2, H0580: 2, H0632: 2, H0156: 2, L0105: 2, L0471: 2, H0494: 2, H0647: 2, S0002: 2, L0646: 2, L0771: 2, L0794: 2, L0776: 2, L0807: 2, L0438: 2, H0547: 2, H0672: 2, S0330: 2, H0626: 2, S3014: 2, L0750: 2, L0752: 2, L0759: 2, S0026: 2, H0624: 1, H0686: 1, H0685: 1, H0713: 1, H0717: 1, S0116: 1, H0664: 1, H0638: 1, S0418: 1, S0420: 1, L0005: 1, S0356: 1, S0358: 1, S0476: 1,	
--	--	--

			S0222: 1, H0586: 1, H0574: 1, T0039: 1, H0013: 1, S0280: 1, L0021: 1, H0575: 1, S0346: 1, H0581: 1, H0374: 1, H0309: 1, H0546: 1, H0024: 1, H0373: 1, H0051: 1, H0356: 1, H0266: 1, H0179: 1, S0318: 1, S0316: 1, H0687: 1, H0288: 1, H0031: 1, L0142: 1, H0628: 1, H0032: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, H0616: 1, H0063: 1, H0413: 1, H0561: 1, H0366: 1, S0438: 1, S0440: 1, H0641: 1, S0144: 1, H0529: 1, L0762: 1, L0769: 1, L0641: 1, L0773: 1, L0381: 1, L0775: 1, L0375: 1, L0606: 1, L0809: 1, L0529: 1, L0368: 1, L0666: 1, L0664: 1, H0144: 1, H0701: 1, H0520: 1, H0659: 1, H0670: 1, H0651: 1,					
--	--	--	--	--	--	--	--	--

							H0539: 1, H0710: 1, S0152: 1, H0522: 1, H0696: 1, S0044: 1, S0406: 1, H0478: 1, L0756: 1, L0753: 1, S0031: 1, H0595: 1, S0434: 1, L0592: 1, S0011: 1, H0653: 1, S0192: 1, S0242: 1, H0542: 1, H0543: 1 and H0422: 1.			
HADDD29	HADDD29R	995	181 - 342	3170	Asn-14 to Thr-26.					
HADET44	HADET44R	996	2 - 304	3171						
HAHGU75	HAHGU75R	997	1 - 501	3172						
HAHHD12	HAHHD12R	998	1 - 96	3173	Leu-3 to Met-9, Gln-24 to Thr-32.					
HALSG11	HALSG11R	999	2 - 364	3174	Ser-25 to Cys-36, Gln-39 to Asp-56.					
HANGA96	HANGA96R	1000	40 - 246	3175	Asn-49 to Asp-54.					
HAOSA43	HAOSA43R	1001	61 - 222	3176						
							L0759: 8, S0010: 7, L0742: 7, L0455: 6, S0007: 5, L0809: 4, L0439: 4, H0013: 3, L0768: 3, L0753: 3, H0686: 2, S0134: 2, S0222: 2, H0052: 2, H0024: 2, L0769: 2, L0638: 2, L0521: 2, L0794: 2, L0438: 2, L0589: 2, L0608: 2,			

HAOSB87	HAOSB87R	1002	1 - 348	3177	Val-77 to Val-86.	H0543: 2, H0341: 1, H0441: 1, H0586: 1, S0346: 1, S0049: 1, H0569: 1, H0050: 1, T0010: 1, H0598: 1, H0272: 1, L0666: 1, H0144: 1, H0689: 1, L0747: 1, L0366: 1 and H0423: 1.		
HAOSC40	HAOSC40R	1003	55 - 327	3178	Pro-69 to Leu-76.	L0766: 8, L0803: 7, L0731: 7, L0758: 5, S0358: 4, S0360: 4, L0794: 4, H0547: 4, S0440: 3, L0662: 3, L0659: 3, L0809: 3, L0666: 3, L0663: 3, S0374: 3, L0755: 3, L0596: 3, H0543: 3, H0583: 2, H0004: 2, H0622: 2, L0194: 2, H0038: 2, S0422: 2, L0771: 2, L0551: 2, L0774: 2, L0655: 2, L0526: 2, L0665: 2, H0659: 2, L0747: 2, L0750: 2, L0756: 2, S0436: 2, H0624: 1, H0170: 1, H0159: 1, H0686: 1, H0685: 1.		

HAOSE70	HAOSE70R	1004	85 - 273	3179		H0650: 1, H0657: 1, S0116: 1, H0341: 1, S0442: 1, S0376: 1, S0444: 1, H0619: 1, L0717: 1, H0411: 1, S0222: 1, H0587: 1, H0497: 1, H0427: 1, H0042: 1, H0596: 1, T0110: 1, H0081: 1, H0050: 1, H0687: 1, S0003: 1, H0252: 1, H0213: 1, H0163: 1, H0591: 1, H0634: 1, H0616: 1, H0063: 1, H0413: 1, H0100: 1, H0529: 1, L0638: 1, L0637: 1, L0800: 1, L0764: 1, L0773: 1, L0521: 1, L0768: 1, L0784: 1, L0783: 1, L0788: 1, L0790: 1, L0664: 1, H0436: 1, S0392: 1, H0627: 1, L0748: 1, L0754: 1, L0749: 1, L0759: 1, H0445: 1, S0434: 1, H0423: 1, S0412: 1 and S0424: 1.		
HAOSE70	HAOSE70R	1004	85 - 273	3179				
HAOSF68	HAOSF68R	1005	1 - 630	3180				

HAOSG95	HAOSG95R	1006	51 - 485	3181	Arg-5 to Arg-17, Asp-25 to Val-31.			
HAOSI79	HAOSI79R	1007	1 - 543	3182	Val-7 to Glu-13, Thr-20 to Arg-26, Lys-34 to Phe-40, Arg-46 to Lys-51.			
HAOSI27	HAOSI27R	1008	2 - 166	3183	Lys-27 to Gln-39, Gln-47 to Thr-52.			
HAOSI33	HAOSI33R	1009	3 - 353	3184	Leu-3 to Glu-14, Ser-95 to Ala-105.			
HAOSI73	HAOSI73R	1010	1 - 114	3185				
HAOSK38	HAOSK38R	1011	1 - 303	3186	Pro-24 to Val-49, Tyr-51 to Leu-56.	H0585: 27, H0556: 17, L0595: 15, L0591: 13, L0593: 13, H0046: 12, H0543: 12, H0521: 11, L0747: 11, L0596: 11, H0265: 10, H0040: 10, H0266: 9, H0038: 9, H0494: 9, L0588: 9, H0656: 8, H0581: 8, H0617: 8, L0664: 8, H0519: 8, L0601: 8, L0163: 7, H0083: 7, H0529: 7, L0665: 7, L0602: 7, H0657: 6, H0599: 6, H0618: 6, H0318: 6, H0551: 6, L0666: 6, H0547: 6, H0542: 6, H0141: 5, H0402: 5, S0358: 5,		

			S0360: 5, S0046: 5, H0013: 5, H0052: 5, H0616: 5, H0087: 5, H0264: 5, T0041: 5, T0042: 5, S0440: 5, L0662: 5, L0774: 5, L0783: 5, L0748: 5, L0751: 5, L0758: 5, H0445: 5, L0599: 5, L0608: 5, H0341: 4, S0420: 4, S0354: 4, H0619: 4, S0222: 4, H0039: 4, H0213: 4, H0560: 4, L0521: 4, L0663: 4, L0565: 4, L0750: 4, L0752: 4, L0362: 4, L0615: 3, H0686: 3, H0650: 3, S0356: 3, S0045: 3, H0438: 3, H0575: 3, H0253: 3, S0010: 3, H0251: 3, H0123: 3, T0023: 3, L0456: 3, H0124: 3, H0561: 3, H0509: 3, H0641: 3, H0646: 3, L0598: 3, L0646: 3, L0768: 3, L0655: 3, H0144: 3, H0689: 3, H0659: 3, H0666: 3, S0152: 3,				
--	--	--	--	--	--	--	--

H0522: 3, S0028: 3, S0434: 3, H0423: 3, S0424: 3, H0506: 3, H0352: 3, H0624: 2, S0218: 2, H0663: 2, S0376: 2, H0580: 2, H0393: 2, L0717: 2, H0261: 2, H0333: 2, H0635: 2, S0049: 2, H0596: 2, T0115: 2, H0597: 2, H0024: 2, L0483: 2, T0006: 2, H0031: 2, H0673: 2, H0090: 2, H0591: 2, H0634: 2, H0063: 2, H0059: 2, S0142: 2, S0210: 2, L0770: 2, L0769: 2, L0638: 2, L0372: 2, L0649: 2, L0776: 2, L0659: 2, L0636: 2, L0542: 2, H0520: 2, H0593: 2, S0328: 2, H0696: 2, S0044: 2, H0436: 2, H0631: 2, S3012: 2, S3014: 2, S0206: 2, L0742: 2, L0439: 2, L0592: 2, L0361: 2, H0136: 2, H0422: 2, H0222: 1, H0159: 1,
--

	H0685: 1, S0342: 1, S0134: 1, H0583: 1, H0483: 1, H0255: 1, H0661: 1, H0662: 1, H0305: 1, S0418: 1, S0444: 1, H0489: 1, H0637: 1, H0151: 1, S0132: 1, H0411: 1, S0278: 1, H0369: 1, H0549: 1, H0441: 1, H0392: 1, H0298: 1, T0104: 1, H0600: 1, H0592: 1, H0587: 1, H0497: 1, H0331: 1, H0574: 1, L0622: 1, L0623: 1, H0486: 1, T0039: 1, T0040: 1, T0114: 1, H0244: 1, H0069: 1, S0280: 1, H0156: 1, H0004: 1, S0346: 1, T0071: 1, H0421: 1, H0085: 1, H0205: 1, H0204: 1, H0545: 1, L0471: 1, H0012: 1, H0246: 1, H0510: 1, H0375: 1, H0179: 1, H0687: 1, S0314: 1, H0328: 1, H0615: 1, H0688: 1, H0428: 1, H0622: 1,					
--	--	--	--	--	--	--

	H0424: 1, H0644: 1, L0142: 1, H0628: 1, H0169: 1, H0674: 1, S0364: 1, L0455: 1, H0316: 1, H0135: 1, T0067: 1, H0488: 1, H0412: 1, H0413: 1, S0038: 1, H0100: 1, L0351: 1, L0564: 1, H0022: 1, S0352: 1, S0150: 1, H0130: 1, H0647: 1, S0144: 1, S0426: 1, L0369: 1, L0763: 1, L0371: 1, L0761: 1, L0667: 1, L0627: 1, L0764: 1, L0773: 1, L0648: 1, L0767: 1, L0650: 1, L0775: 1, L0653: 1, L0382: 1, L0809: 1, L0793: 1, S0216: 1, H0697: 1, S0310: 1, S0126: 1, H0684: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0378: 1, S0380: 1, H0518: 1, H0134: 1, S0406: 1, H0555: 1, S0037: 1, S0027: 1, L0754: 1, L0745: 1,					
--	--	--	--	--	--	--

						L0786: 1, L0779: 1, L0757: 1, L0759: 1, H0444: 1, H0707: 1, S0436: 1, L0597: 1, L0594: 1, S0026: 1, L0697: 1, H0677: 1 and L0600: 1.			
HAOSL36	HAOSL36R	1012	3 - 269	3187		S0418: 10, L0749: 9, L0809: 7, S0406: 6, L0766: 5, L0748: 5, L0740: 5, L0752: 5, L0731: 5, S0360: 4, L0509: 4, L0665: 4, L0754: 4, S0424: 4, H0638: 3, S0420: 3, S0410: 3, H0013: 3, H0318: 3, H0545: 3, H0050: 3, H0040: 3, L0664: 3, H0658: 3, H0521: 3, L0750: 3, H0556: 2, H0341: 2, H0580: 2, S0222: 2, H0333: 2, L0471: 2, H0620: 2, H0687: 2, H0553: 2, H0673: 2, H0674: 2, H0068: 2, H0551: 2, H0494: 2, H0560: 2, S0438: 2, S0440: 2, H0509: 2, L0769: 2, L0638: 2,			

1012

HAOSL47	HAOSL47R	1013	2 - 409	3188	Thr-12 to Thr-17, Leu-31 to Met-36, Pro-97 to Lys-103, Gln-126 to Trp-136.	H0056: 1, H0623: 1, L0564: 1, T0041: 1, S0150: 1, H0633: 1, S0144: 1, H0538: 1, S0210: 1, S0002: 1, L0369: 1, L0506: 1, L0500: 1, L0501: 1, L0646: 1, L0374: 1, L0765: 1, L0363: 1, L0381: 1, L0803: 1, L0653: 1, L0493: 1, L0526: 1, L0783: 1, L0383: 1, L0666: 1, L0663: 1, S0006: 1, H0593: 1, S0126: 1, H0711: 1, H0682: 1, H0670: 1, H0672: 1, H0651: 1, S0152: 1, S0454: 1, S0262: 1, L0356: 1, S0390: 1, L0747: 1, L0780: 1, L0753: 1, L0755: 1, L0757: 1, H0707: 1, L0485: 1, L0599: 1, L0608: 1, L0601: 1, H0667: 1 and H0008: 1. L0748: 23, S0358: 12, H0616: 10, L0750: 8, L0752: 8, L0596: 8, H0031: 7, H0494: 7,		
---------	----------	------	---------	------	---	--	--	--

L0731: 7, L0758: 7, H0556: 6, H0024: 6, L0770: 6, L0588: 6, S0360: 5, S0046: 5, S0476: 5, L0774: 5, H0547: 5, L0439: 5, L0740: 5, L0749: 5, L0755: 5, S0420: 4, S0250: 4, H0039: 4, H0135: 4, H0551: 4, L0766: 4, H0144: 4, S0126: 4, L0742: 4, L0743: 4, L0747: 4, L0757: 4, L0591: 4, H0170: 3, H0663: 3, S0444: 3, H0486: 3, H0200: 3, H0188: 3, H0038: 3, H0100: 3, L0769: 3, L0773: 3, L0775: 3, S0031: 3, H0445: 3, H0136: 3, H0542: 3, H0543: 3, H0624: 2, H0717: 2, S0212: 2, H0484: 2, H0255: 2, S0418: 2, S0408: 2, S0410: 2, H0393: 2, H0351: 2, H0411: 2, S0222: 2, H0592: 2, H0574: 2, H0635: 2, H0427: 2,					
--	--	--	--	--	--

					H0036: 2, H0318: 2, H0545: 2, H0009: 2, H0178: 2, H0014: 2, H0644: 2, H0617: 2, H0032: 2, H0124: 2, H0068: 2, H0040: 2, T0067: 2, H0413: 2, H0623: 2, T0041: 2, T0042: 2, S0440: 2, S0150: 2, H0641: 2, H0529: 2, L0502: 2, L0500: 2, L0761: 2, L0764: 2, L0662: 2, L0767: 2, L0776: 2, L0657: 2, L0659: 2, L0782: 2, L0783: 2, H0690: 2, H0659: 2, H0672: 2, S0328: 2, H0134: 2, H0555: 2, S3012: 2, L0754: 2, L0759: 2, L0590: 2, L0592: 2, L0593: 2, L0594: 2, H0265: 1, T0002: 1, H0686: 1, S0040: 1, S0134: 1, H0583: 1, H0657: 1, H0341: 1, S0180: 1, H0483: 1, H0661: 1, H0664: 1, S0356: 1, S0442: 1, S0376: 1,	
--	--	--	--	--	--	--

	H0580: 1, S0007: 1, S0132: 1, L0717: 1, H0431: 1, H0370: 1, H0392: 1, H0600: 1, H0586: 1, H0333: 1, L0622: 1, T0060: 1, T0109: 1, H0013: 1, H0250: 1, H0069: 1, L0021: 1, H0599: 1, H0575: 1, H0618: 1, S0182: 1, H0251: 1, H0263: 1, H0596: 1, L0738: 1, H0041: 1, H0081: 1, H0012: 1, H0620: 1, L0163: 1, S0388: 1, S0051: 1, H0375: 1, H0266: 1, H0271: 1, H0687: 1, H0290: 1, S0003: 1, S0022: 1, H0428: 1, L0194: 1, H0553: 1, H0628: 1, H0673: 1, H0169: 1, L0456: 1, H0708: 1, S0366: 1, S0036: 1, H0163: 1, H0090: 1, H0591: 1, H0087: 1, L0060: 1, H0379: 1, H0412: 1, H0560: 1, S0382: 1, S0466: 1, S0438: 1,					
--	--	--	--	--	--	--

HAOSP50	HAOSP50R	1014	183 - 380	3189	Ser-53 to Pro-60.	H0509: 1, S0210: 1, L0520: 1, L0762: 1, L0501: 1, L0765: 1, L0771: 1, L0521: 1, L0768: 1, L0387: 1, L0498: 1, L0375: 1, L0806: 1, L0655: 1, L0661: 1, L0807: 1, L0527: 1, L0382: 1, L0809: 1, L0519: 1, L0663: 1, S0428: 1, S0374: 1, H0723: 1, H0519: 1, H0593: 1, H0658: 1, H0648: 1, H0651: 1, S0330: 1, H0539: 1, S0378: 1, H0710: 1, S0152: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, S0390: 1, S0028: 1, S0124: 1, S0032: 1, L0753: 1, S0434: 1, L0485: 1, L0581: 1, L0595: 1, L0366: 1, S0106: 1, H0668: 1, S0026: 1, H0653: 1, H0665: 1, S0194: 1, H0423: 1, H0422: 1, S0456: 1 and H0352: 1.		
---------	----------	------	-----------	------	-------------------	--	--	--

HAOSS30	HAOSS30R	1015	3 - 509	3190	Pro-11 to His-21, Glu-30 to Glu-41, Arg-55 to Ser-64, Arg-89 to Thr-96, Cys-99 to Gln-106, Pro-116 to His-124.	L0439: 16, S0222: 5, H0733: 4, L0770: 4, L0809: 4, L0747: 4, S0356: 3, L0471: 3, S0366: 3, L0766: 3, S0436: 3, H0556: 2, L0622: 2, H0373: 2, S0628: 2, H0266: 2, H0687: 2, H0617: 2, L0637: 2, L0803: 2, L0789: 2, H0518: 2, L0748: 2, S0434: 2, L0604: 2, H0686: 1, S0040: 1, H0583: 1, S0001: 1, S0420: 1, H0729: 1, H0722: 1, H0619: 1, H0333: 1, H0318: 1, H0007: 1, H0052: 1, H0009: 1, L0163: 1, H0051: 1, H0428: 1, H0181: 1, S0364: 1, H0708: 1, H0135: 1, H0413: 1, S0440: 1, L5575: 1, L0764: 1, L0375: 1, L0378: 1, L0652: 1, L0438: 1, S0126: 1, H0658: 1, H0539: 1, L0740: 1, L0749: 1, L0779: 1, L0752: 1 and		
---------	----------	------	---------	------	---	--	--	--

HAOSU85	HAOSU85R	1016	2 - 508	3191	His-1 to Phe-7, Pro-16 to His-26, Asp-44 to Ser-52.	L0758: 1, H0686: 2, L0362: 2, H0100: 1, H0646: 1 and L0766: 1.			
HAOSW92	HAOSW92R	1017	93 - 317	3192		L0777: 8, L0754: 6, L0662: 4, L0766: 4, S0136: 3, S0406: 2, L0744: 2, L0780: 2, L0752: 2, L0594: 2, H0556: 1, H0686: 1, S0418: 1, S0376: 1, S0360: 1, H0580: 1, H0587: 1, H0486: 1, S0280: 1, L0021: 1, L0105: 1, H0428: 1, L0055: 1, H0212: 1, H0040: 1, S0422: 1, L0639: 1, L5575: 1, L0772: 1, L0372: 1, L0764: 1, L0794: 1, L0522: 1, L0803: 1, L0659: 1, L0529: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0684: 1, H0659: 1, H0670: 1, L0748: 1, L0756: 1, L0757: 1, L0758: 1, L0759: 1, L0596: 1, L0589: 1, L0605: 1, L0599: 1,			

								H0667: 1, H0542: 1 and H0506: 1.			
HAOTB47	HAOTB47R	1018	3 - 107	3193							
HAOTB58	HAOTB58R	1019	336 - 485	3194	Ile-3 to Asp-9.			L0756: 6, L0777: 6, S0408: 5, L0770: 5, H0547: 5, S0360: 4, L0665: 4, H0624: 3, H0687: 3, H0170: 2, H0686: 2, L0717: 2, H0497: 2, L0163: 2, L0794: 2, L0766: 2, S0126: 2, L0752: 2, L0731: 2, H0657: 1, H0656: 1, L0808: 1, H0341: 1, S0282: 1, S0442: 1, S0354: 1, S0045: 1, S0222: 1, H0486: 1, L0586: 1, H0156: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, L0738: 1, H0266: 1, H0553: 1, H0169: 1, S0036: 1, H0087: 1, H0413: 1, S0422: 1, L0598: 1, L0520: 1, L0763: 1, L0638: 1, L0764: 1, L0803: 1, L0776: 1, L0658: 1, L0659: 1, L0809: 1, L0789: 1,			

HAOTD32	HAOTD32R	1020	209 - 340	3195				L0664: 1, S0374: 1, H0520: 1, H0659: 1, H0670: 1, H0672: 1, H0436: 1, S0028: 1, L0439: 1, H0445: 1, L0589: 1, L0608: 1, S0192: 1, H0543: 1, H0423: 1, S0424: 1 and L0600: 1.		
								L0747: 28, S0192: 21, L0659: 17, L0740: 12, L0757: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0664: 8, S0358: 7, L0666: 7, L0750: 7, L0601: 7, L0777: 6, L0731: 6, L0471: 5, S0003: 5, H0038: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, L0758: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0575: 4, H0012: 4, H0620: 4, H0083: 4, H0090: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4,		

L0806: 4, L0754: 4, L0779: 4, L0596: 4, L0588: 4, L0581: 4, L0603: 4, H0556: 3, H0431: 3, H0370: 3, S0010: 3, H0596: 3, S0388: 3, T0023: 3, H0031: 3, H0264: 3, L0564: 3, S0372: 3, L0769: 3, L0667: 3, L0521: 3, L0768: 3, L0774: 3, L0657: 3, L0783: 3, L0809: 3, L0663: 3, S0126: 3, S0122: 3, H0682: 3, L0759: 3, L0591: 3, H0352: 3, L0353: 2, H0686: 2, S0040: 2, H0295: 2, H0650: 2, S0045: 2, S0046: 2, S0132: 2, H0549: 2, S0222: 2, H0427: 2, H0156: 2, H0263: 2, H0597: 2, H0546: 2, H0046: 2, H0050: 2, H0024: 2, T0010: 2, H0375: 2, H0266: 2, H0271: 2, H0030: 2, H0553: 2, H0644: 2, H0674: 2, H0135: 2,						
--	--	--	--	--	--	--

				H0591: 2, H0616: 2, H0412: 2, H0413: 2, H0059: 2, H0100: 2, S0002: 2, L0369: 2, L0520: 2, L0763: 2, L0637: 2, L0761: 2, L0372: 2, L0767: 2, L0649: 2, L0803: 2, L0776: 2, L0382: 2, L0565: 2, H0690: 2, H0659: 2, H0670: 2, H0660: 2, H0648: 2, H0672: 2, S0404: 2, S0406: 2, H0555: 2, H0478: 2, H0626: 2, H0627: 2, L0070: 2, S3014: 2, S0032: 2, L0741: 2, L0590: 2, L0592: 2, L0599: 2, L0593: 2, L0595: 2, H0543: 2, L0600: 2, H0170: 1, H0171: 1, H0265: 1, T0002: 1, H0140: 1, S0470: 1, H0294: 1, L0785: 1, S0212: 1, S0282: 1, H0484: 1, H0671: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, L0005: 1, S0442: 1,			
--	--	--	--	--	--	--	--

				S0444: 1, H0676: 1, H0208: 1, H0619: 1, H0393: 1, S6022: 1, H0369: 1, H0550: 1, H0455: 1, H0587: 1, H0333: 1, H0331: 1, H0574: 1, H0559: 1, T0039: 1, H0013: 1, S0280: 1, H0097: 1, H0042: 1, T0082: 1, S0474: 1, H0581: 1, S0049: 1, H0251: 1, H0309: 1, H0235: 1, H0011: 1, H0051: 1, H0021: 1, H0510: 1, H0594: 1, S0334: 1, H0687: 1, S0250: 1, S0214: 1, H0119: 1, T0006: 1, H0628: 1, H0617: 1, L0055: 1, H0032: 1, H0169: 1, H0124: 1, H0598: 1, H0551: 1, T0067: 1, H0128: 1, L0475: 1, H0560: 1, H0561: 1, S0352: 1, S0438: 1, S0440: 1, H0132: 1, H0641: 1, H0647: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1,		
--	--	--	--	--	--	--

HAOTE06	HAOTE06R	1021	2 - 472	3196			H0529: 1, L0762: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0647: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S3012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1.		
							L0803: 9, L0794: 8, L0740: 5, L0748: 4, L0439: 4, L0747: 4, L0438: 3, L0779: 3, L0758: 3, H0553: 2, L0646: 2, L0800: 2, L0804: 2, L0809: 2,		

HAOTF84	HAOTF84R	1022	68 - 208	3197	Lys-15 to Gln-22.	L0665: 2, H0670: 2, L0755: 2, L0608: 2, S0026: 2, H0170: 1, H0686: 1, H0717: 1, H0656: 1, S0444: 1, H0580: 1, H0156: 1, H0178: 1, H0014: 1, H0252: 1, H0615: 1, H0674: 1, H0090: 1, H0063: 1, L0637: 1, L0372: 1, L0764: 1, L0765: 1, L0662: 1, L0766: 1, L0649: 1, L0650: 1, L0806: 1, L0653: 1, L0657: 1, L0659: 1, L0517: 1, L0529: 1, L5622: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, H0144: 1, H0723: 1, S0126: 1, H0659: 1, S0378: 1, S0152: 1, L0741: 1, L0777: 1, S0434: 1, L0594: 1, L0595: 1 and H0667: 1. L0757: 13, L0731: 10, L0754: 7, L0770: 4, S0360: 3, H0553: 3, H0551: 3, L0769: 3, L0662: 3, L0659: 3,		
---------	----------	------	----------	------	-------------------	---	--	--

			L0747: 3, L0779: 3, L0777: 3, L0755: 3, H0686: 2, S0420: 2, H0545: 2, L0471: 2, H0673: 2, L0598: 2, L0646: 2, L0794: 2, L0806: 2, H0520: 2, S0330: 2, H0436: 2, L0740: 2, L0751: 2, L0756: 2, L0599: 2, S0011: 2, S0242: 2, H0170: 1, L0002: 1, L0808: 1, S0418: 1, S0444: 1, L0717: 1, H0587: 1, H0497: 1, H0333: 1, H0632: 1, T0039: 1, H0013: 1, H0250: 1, L0021: 1, H0052: 1, S0051: 1, H0188: 1, S0003: 1, S0022: 1, S0214: 1, H0428: 1, H0031: 1, H0628: 1, S0438: 1, S0440: 1, H0647: 1, L0763: 1, L0764: 1, L0771: 1, L0648: 1, L0649: 1, L0651: 1, L0805: 1, L0652: 1, L0655: 1, L0606: 1, L0634: 1, L0542: 1,				
--	--	--	--	--	--	--	--

									L0783: 1, L0809: 1, L0787: 1, L0666: 1, L0663: 1, H0144: 1, H0701: 1, S0374: 1, L0565: 1, H0547: 1, S0126: 1, H0682: 1, H0435: 1, H0659: 1, H0648: 1, H0539: 1, S0378: 1, S0406: 1, H0626: 1, S3012: 1, L0748: 1, L0749: 1, L0758: 1, L0759: 1, L0588: 1, L0589: 1, L0592: 1, L0593: 1, L0594: 1, H0653: 1, S0192: 1, S0194: 1 and H0352: 1.				
HAOTF90	HAOTF90R	1023	3 - 176	3198					L0439: 5, S0026: 5, H0624: 4, H0413: 4, S0418: 3, H0580: 3, H0373: 3, H0038: 3, H0494: 3, H0144: 3, H0686: 2, S0358: 2, H0261: 2, S0222: 2, H0013: 2, H0581: 2, H0052: 2, H0545: 2, H0031: 2, H0529: 2, L0664: 2, S0027: 2, L0747: 2, L0777: 2, L0752: 2, L0755: 2,				

	H0170: 1, S6024: 1, S0134: 1, H0483: 1, H0664: 1, H0449: 1, H0458: 1, H0125: 1, L0005: 1, S0045: 1, S0132: 1, H0393: 1, H0497: 1, H0485: 1, H0486: 1, T0060: 1, H0575: 1, H0122: 1, H0036: 1, S0010: 1, H0505: 1, S0049: 1, H0196: 1, H0046: 1, H0569: 1, H0123: 1, L0471: 1, H0024: 1, T0010: 1, H0266: 1, S0312: 1, S0314: 1, S0003: 1, S0214: 1, H0622: 1, H0553: 1, H0674: 1, S0364: 1, S0036: 1, H0379: 1, H0100: 1, L0370: 1, T0042: 1, H0641: 1, H0646: 1, S0144: 1, S0426: 1, L0638: 1, L0773: 1, L0775: 1, L0378: 1, L0776: 1, L0666: 1, L0438: 1, H0547: 1, H0519: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1,	
--	--	--

HAOTG75	HAOTG75R	1024	2 - 328	3199	Glu-1 to Gln-8, Pro-31 to Trp-36.	H0521: 1, H0631: 1, L0740: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1, L0581: 1, L0604: 1, L0594: 1, H0667: 1 and L0697: 1. L0747: 28, S0192: 21, L0659: 17, L0740: 12, L0757: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0664: 8, S0358: 7, L0666: 7, L0750: 7, L0601: 7, L0777: 6, L0731: 6, L0471: 5, S0003: 5, H0038: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, L0758: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0575: 4, H0012: 4, H0620: 4, H0083: 4, H0090: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4, L0806: 4, L0754: 4, L0779: 4, L0596: 4, L0588: 4, L0581: 4,		
---------	----------	------	---------	------	--------------------------------------	--	--	--

L0603: 4, H0556: 3, H0431: 3, H0370: 3, S0010: 3, H0596: 3, S0388: 3, T0023: 3, H0031: 3, H0264: 3, L0564: 3, S0372: 3, L0769: 3, L0667: 3, L0521: 3, L0768: 3, L0774: 3, L0657: 3, L0783: 3, L0809: 3, L0663: 3, S0126: 3, S0122: 3, H0682: 3, L0759: 3, L0591: 3, H0352: 3, L0353: 2, H0686: 2, S0040: 2, H0295: 2, H0650: 2, S0045: 2, S0046: 2, S0132: 2, H0549: 2, S0222: 2, H0427: 2, H0156: 2, H0263: 2, H0597: 2, H0546: 2, H0046: 2, H0050: 2, H0024: 2, T0010: 2, H0375: 2, H0266: 2, H0271: 2, H0030: 2, H0553: 2, H0644: 2, H0674: 2, H0135: 2, H0591: 2, H0616: 2, H0412: 2, H0413: 2, H0059: 2, H0100: 2,
--

	S0002: 2, L0369: 2, L0520: 2, L0763: 2, L0637: 2, L0761: 2, L0372: 2, L0767: 2, L0649: 2, L0803: 2, L0776: 2, L0382: 2, L0565: 2, H0690: 2, H0659: 2, H0670: 2, H0660: 2, H0648: 2, H0672: 2, S0404: 2, S0406: 2, H0555: 2, H0478: 2, H0626: 2, H0627: 2, L0070: 2, S3014: 2, S0032: 2, L0741: 2, L0590: 2, L0592: 2, L0599: 2, L0593: 2, L0595: 2, H0543: 2, L0600: 2, H0170: 1, H0171: 1, H0265: 1, T0002: 1, H0140: 1, S0470: 1, H0294: 1, L0785: 1, S0212: 1, S0282: 1, H0484: 1, H0671: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, L0005: 1, S0442: 1, S0444: 1, H0676: 1, H0208: 1, H0619: 1, H0393: 1, S6022: 1,					
--	--	--	--	--	--	--

			H0369: 1, H0550: 1, H0455: 1, H0587: 1, H0333: 1, H0331: 1, H0574: 1, H0559: 1, T0039: 1, H0013: 1, S0280: 1, H0097: 1, H0042: 1, T0082: 1, S0474: 1, H0581: 1, S0049: 1, H0251: 1, H0309: 1, H0235: 1, H0011: 1, H0051: 1, H0021: 1, H0510: 1, H0594: 1, S0334: 1, H0687: 1, S0250: 1, S0214: 1, H0119: 1, T0006: 1, H0628: 1, H0617: 1, L0055: 1, H0032: 1, H0169: 1, H0124: 1, H0598: 1, H0551: 1, T0067: 1, H0128: 1, L0475: 1, H0560: 1, H0561: 1, S0352: 1, S0438: 1, S0440: 1, H0132: 1, H0641: 1, H0647: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1, H0529: 1, L0762: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1,					
--	--	--	--	--	--	--	--	--

									L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0647: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S3012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1.					
HAOTH28	HAOTH28R	1025	33 - 164	3200										
HAOTI07	HAOTI07R	1026	3 - 398	3201	Pro-1 to Arg-6, Met-12 to Ser-21.									
HAOTT79	HAOTT79R	1027	3 - 392	3202										
HAOTU79	HAOTU79R	1028	15 - 455	3203										
HAOTW22	HAOTW22R	1029	1 - 201	3204	Ser-35 to Ser-41, Ile-50 to Gly-55.									
HAOTW30	HAOTW30R	1030	376 - 564	3205	Arg-1 to Gly-7.									
HAOTW65	HAOTW65R	1031	113 - 475	3206					H0686: 2 and S0358: 1.					

HAPNK45	HAPNK45R	1032	68 - 232	3207				
HAPPR43	HAPPR43R	1033	200 - 313	3208	Lys-1 to Ser-6, Ala-26 to Thr-31.			
					Ser-1 to Pro-11.			
HAPQO14	HAPQO14R	1034	5 - 193	3209				
HAQML40	HAQML40R	1035	1 - 258	3210				
HASME85	HASME85R	1036	208 - 396	3211				
HAUAK54	HAUAK54R	1037	3 - 299	3212				
HAVMB46	HAVMB46R	1038	84 - 203	3213	Ser-13 to Arg-19, Ile-28 to Asn-33.			
HAVMW69	HAVMW69R	1039	3 - 116	3214		L0439: 2, L0755: 2, S0412: 2, H0170: 1, H0497: 1, H0591: 1, H0038: 1, L0641: 1, L0774: 1, L0651: 1, L0776: 1, L4501: 1, L0666: 1, L0663: 1, H0144: 1, L0438: 1, S0126: 1, H0659: 1, H0648: 1, L0602: 1, L0748: 1, L0749: 1, L0750: 1, L0756: 1, L0752: 1, L0759: 1, L0599: 1 and L0362: 1.		
HAVNQ92	HAVNQ92R A	1040	1 - 165	3215	Ala-19 to Arg-24.			
HAVOJ11	HAVOJ11R	1041	108 - 239	3216	Gly-1 to Thr-12, Glu-23 to Lys-38.			
HAZAC68	HAZAC68R	1042	3 - 587	3217	Ser-119 to Lys-124.			
HAZAD13	HAZAD13R	1043	2 - 517	3218	Lys-32 to Arg-40,			

						Ser-54 to Gly-59, Glu-133 to Ala-147, Gln-153 to Gln-164.					
HAZAD40	HAZAD40R	1044	191 - 445	3219		Val-9 to Gly-24.					S0360: 1, H0486: 1, L0761: 1, L0803: 1, L0774: 1, L0666: 1, L0663: 1, L0665: 1, H0520: 1, H0690: 1, H0435: 1 and L0747: 1.
HAZAE44	HAZAE44R	1045	3 - 512	3220							
HAZAG23	HAZAG23R	1046	2 - 466	3221		Gln-12 to Thr-20, Cys-39 to Asn-45, Thr-60 to Gly-66, Lys-99 to Asp-106, Asp-119 to Pro-127.					H0424: 16, S0380: 13, L0748: 13, L0750: 12, S0440: 10, S0444: 9, L0755: 9, L0758: 9, S0192: 9, H0484: 8, S0358: 8, H0545: 8, L0809: 8, L0747: 8, L0749: 8, S0360: 7, S0410: 7, S0406: 7, L0752: 7, L0766: 6, S0374: 6, L0751: 6, L0754: 6, H0423: 6, S0442: 5, H0672: 5, S0378: 5, S0404: 5, L0759: 5, H0556: 4, S0356: 4, S0376: 4, H0546: 4, H0150: 4, S0438: 4, L0775: 4, L0776: 4, L0518: 4, S0328: 4, L0740: 4,

S0434: 4, L0599: 4, H0422: 4, H0685: 3, S0116: 3, H0483: 3, H0638: 3, H0486: 3, H0318: 3, H0309: 3, H0597: 3, H0617: 3, H0494: 3, S0144: 3, L0771: 3, L0767: 3, L0768: 3, L0794: 3, L0774: 3, L0806: 3, L0783: 3, L0528: 3, H0593: 3, S0126: 3, H0690: 3, H0658: 3, H0670: 3, S0330: 3, H0696: 3, S0028: 3, L0742: 3, L0439: 3, L0731: 3, L0757: 3, H0543: 3, H0149: 2, S0218: 2, H0341: 2, H0306: 2, H0402: 2, S0420: 2, H0722: 2, S0476: 2, H0392: 2, H0333: 2, H0101: 2, H0581: 2, H0421: 2, H0204: 2, H0231: 2, H0009: 2, H0023: 2, H0024: 2, H0271: 2, H0031: 2, H0644: 2, H0166: 2, H0124: 2, H0068: 2, H0616: 2,
--

	H0059: 2, H0560: 2, H0509: 2, S0344: 2, S0422: 2, L0769: 2, L0764: 2, L0765: 2, L0651: 2, L0657: 2, H0689: 2, H0684: 2, H0659: 2, H0660: 2, H0648: 2, H0521: 2, S0044: 2, S0392: 2, L0743: 2, S0436: 2, L0588: 2, L0590: 2, H0542: 2, S0446: 2, L0600: 2, H0008: 2, H0624: 1, H0170: 1, H0171: 1, S0040: 1, S6024: 1, H0295: 1, H0294: 1, S0114: 1, H0657: 1, H0656: 1, L0760: 1, S0212: 1, H0255: 1, H0663: 1, S0418: 1, S0354: 1, H0676: 1, S0408: 1, T0008: 1, H0637: 1, H0730: 1, H0393: 1, S0278: 1, H0369: 1, S0222: 1, H0370: 1, H0330: 1, H0592: 1, H0586: 1, H0574: 1, L0622: 1, H0013: 1, H0427: 1, S0280: 1,	
--	--	--

	H0156: 1, H0575: 1, H0004: 1, H0274: 1, H0253: 1, T0048: 1, S0474: 1, H0085: 1, H0596: 1, H0544: 1, H0086: 1, H0123: 1, L0471: 1, H0012: 1, H0620: 1, H0057: 1, T0010: 1, H0375: 1, H0594: 1, H0179: 1, H0188: 1, H0687: 1, H0284: 1, H0252: 1, T0023: 1, S0368: 1, T0006: 1, H0604: 1, H0213: 1, H0553: 1, L0055: 1, H0032: 1, H0673: 1, H0674: 1, S0366: 1, S0036: 1, H0163: 1, H0038: 1, H0634: 1, H0087: 1, T0067: 1, H0264: 1, T0041: 1, H0625: 1, H0561: 1, S0466: 1, H0131: 1, S0150: 1, H0633: 1, S0472: 1, H0529: 1, L0762: 1, L0763: 1, L0770: 1, L3905: 1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0374: 1,					
--	--	--	--	--	--	--

								L0521: 1, L0662: 1, L0364: 1, L5564: 1, L0378: 1, L0655: 1, L0379: 1, L0656: 1, L0659: 1, L0540: 1, L0526: 1, L0384: 1, L0544: 1, L0541: 1, L0789: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, H0726: 1, H0547: 1, H0683: 1, H0651: 1, H0539: 1, H0518: 1, S0350: 1, H0555: 1, H0576: 1, H0627: 1, S3014: 1, S0027: 1, S0032: 1, L0756: 1, L0786: 1, L0777: 1, L0753: 1, H0445: 1, L0591: 1, L0592: 1, L0608: 1 and L0603: 1.			
HAZAG92	HAZAG92R	1047	282 - 467	3222	Pro-48 to Gly-59.						
HAZAH79	HAZAH79R	1048	138 - 515	3223	Gly-2 to Ser-9, Pro-46 to Cys-60, Pro-62 to His-69, Pro-81 to Thr-91, Ala-96 to Ser-101.						
HAZAI23	HAZAI23R	1049	1 - 165	3224	Lys-11 to Ser-16, Arg-20 to Glu-28.	L0747: 21, L0748: 18, L0750: 15, S0408: 11, L0771: 10, L0775: 9,					

L0742: 8, S0410: 6, L0756: 6, L0752: 6, L0758: 6, L0731: 5, H0341: 4, L0766: 4, L0803: 4, L0776: 4, S0126: 4, H0170: 3, H0486: 3, S0346: 3, H0204: 3, H0545: 3, L0471: 3, S0440: 3, L0769: 3, L0772: 3, L0804: 3, H0214: 3, S0404: 3, L0744: 3, L0754: 3, L0757: 3, H0506: 3, H0171: 2, H0685: 2, S0420: 2, S0356: 2, S0358: 2, S0045: 2, H0587: 2, H0069: 2, L0021: 2, H0575: 2, T0048: 2, H0318: 2, H0581: 2, H0597: 2, H0009: 2, H0014: 2, H0510: 2, H0622: 2, H0031: 2, S0364: 2, H0591: 2, H0056: 2, H0494: 2, S0438: 2, L0770: 2, L0761: 2, L0521: 2, L0649: 2, L0650: 2, L0526: 2, L0792: 2, L0666: 2, L0665: 2,
--

H0690: 2, H0522: 2, H0134: 2, L0743: 2, L0740: 2, L0759: 2, L0587: 2, H0422: 2, H0624: 1, T0002: 1, H0294: 1, H0657: 1, H0484: 1, H0255: 1, H0661: 1, H0664: 1, H0176: 1, H0402: 1, S0442: 1, S0376: 1, H0637: 1, S0046: 1, S0476: 1, H0393: 1, L0717: 1, H0351: 1, S0278: 1, S0222: 1, H0392: 1, H0438: 1, H0331: 1, L0622: 1, H0635: 1, S0182: 1, S0474: 1, H0173: 1, H0052: 1, H0596: 1, H0327: 1, H0546: 1, H0150: 1, H0565: 1, H0123: 1, H0081: 1, H0051: 1, S0051: 1, H0083: 1, H0594: 1, H0028: 1, S0214: 1, H0252: 1, H0428: 1, H0213: 1, H0644: 1, H0617: 1, H0163: 1, H0090: 1, H0616: 1, H0087: 1, H0488: 1,
--

HAZAI87	HAZAI87R	1050	264 - 428	3225	Phe-34 to Lys-41.	H0413: 1, T0069: 1, S0038: 1, T0041: 1, T0042: 1, H0512: 1, H0560: 1, H0646: 1, S0344: 1, S0422: 1, H0529: 1, L0520: 1, L0763: 1, L0646: 1, L0764: 1, L0773: 1, L0768: 1, L0522: 1, L0774: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0655: 1, L0379: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0519: 1, L0789: 1, L0791: 1, L0664: 1, S0053: 1, H0683: 1, H0659: 1, H0658: 1, S0328: 1, H0710: 1, H0696: 1, S0406: 1, L0751: 1, L0749: 1, L0786: 1, L0780: 1, L0753: 1, L0755: 1, S0260: 1, L0366: 1, H0653: 1, H0667: 1, H0542: 1, H0543: 1 and H0712: 1.	L0659: 6, L0662: 5, S0212: 4, S0003: 4, H0551: 4, S0192: 4,	
---------	----------	------	-----------	------	-------------------	--	---	--

	S0376: 3, S0440: 3, S0374: 3, H0521: 3, S0040: 2, S0418: 2, S0444: 2, H0580: 2, H0486: 2, H0575: 2, L0471: 2, H0024: 2, H0553: 2, L0637: 2, S0126: 2, S0406: 2, S0028: 2, L0748: 2, L0754: 2, L0757: 2, S0434: 2, L0590: 2, S0242: 2, H0686: 1, H0685: 1, H0664: 1, S0420: 1, L0005: 1, S0360: 1, S0408: 1, S0045: 1, S0476: 1, S0278: 1, H0357: 1, H0586: 1, T0039: 1, H0635: 1, H0427: 1, L0022: 1, H0004: 1, H0505: 1, S0049: 1, H0251: 1, H0263: 1, T0003: 1, H0373: 1, H0051: 1, H0356: 1, H0622: 1, H0644: 1, H0090: 1, H0412: 1, H0623: 1, H0560: 1, H0641: 1, H0633: 1, S0142: 1, S0208: 1, L0773: 1, L0521: 1,					
--	--	--	--	--	--	--

							L0649: 1, L0803: 1, L0775: 1, L0528: 1, L0663: 1, L0664: 1, H0144: 1, L0565: 1, H0693: 1, H0520: 1, H0547: 1, H0689: 1, H0690: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, S0152: 1, H0555: 1, H0436: 1, S0432: 1, S0390: 1, S3014: 1, L0439: 1, L0758: 1, L0686: 1, S0436: 1, L0588: 1, S0196: 1, L0698: 1 and H0293: 1.				
HAZAI89	HAZAI89R	1051	3 - 260	3226	Ser-54 to Ser-60, Ile-69 to Gly-74.						
HAZAJ72	HAZAJ72R	1052	1 - 612	3227	Ala-17 to Asp-36, Thr-56 to Met-61.			S0420: 2, H0575: 2, S0418: 1, L0005: 1, S0356: 1, H0619: 1, H0097: 1, H0581: 1, H0012: 1, H0373: 1, H0266: 1, S0250: 1, T0042: 1, H0625: 1, H0561: 1, S0438: 1, S0150: 1, H0641: 1, S0210: 1, H0693: 1, H0519: 1, H0690: 1, L0748: 1 and H0653: 1.			

HAZAQ80	HAZAQ80R	1053	27 - 389	3228	Thr-41 to Lys-46, Thr-53 to Gly-59, Ala-77 to Asp-84.			
HAZAW22	HAZAW22R	1054	2 - 172	3229	Ser-1 to Leu-14, Glu-39 to Thr-47.	L0748: 31, L0747: 18, L0752: 17, L0758: 17, L0777: 15, L0766: 13, H0014: 9, L0776: 9, L0751: 9, L0740: 7, L0779: 7, L0754: 6, H0040: 5, L0769: 5, S0330: 5, L0439: 5, L0756: 5, L0599: 5, S0356: 4, H0587: 4, H0622: 4, L0783: 4, L0744: 4, L0745: 4, L0749: 4, L0755: 4, S0031: 4, H0624: 3, S0222: 3, H0156: 3, S0010: 3, S0049: 3, S0051: 3, S0003: 3, H0591: 3, H0038: 3, L0763: 3, L0770: 3, L0662: 3, L0551: 3, L0803: 3, L0664: 3, H0144: 3, H0547: 3, H0521: 3, L0757: 3, L0759: 3, L0596: 3, L0608: 3, L0595: 3, S0114: 2, S0116: 2, H0341: 2, S0418: 2,		

				S0360: 2, H0619: 2, H0393: 2, H0013: 2, H0575: 2, H0318: 2, H0581: 2, H0051: 2, S0388: 2, H0428: 2, T0006: 2, H0673: 2, H0169: 2, H0674: 2, S0036: 2, H0616: 2, H0551: 2, H0268: 2, L0625: 2, L0768: 2, L0649: 2, L0775: 2, L0806: 2, L0805: 2, H0539: 2, L0731: 2, S0260: 2, H0445: 2, S0434: 2, L0605: 2, L0594: 2, H0543: 2, H0170: 1, H0171: 1, H0716: 1, S6024: 1, S0134: 1, S0218: 1, H0583: 1, H0650: 1, H0657: 1, L0785: 1, S0212: 1, S0282: 1, S0035: 1, S0030: 1, H0305: 1, H0638: 1, S0348: 1, S0420: 1, L0005: 1, S0442: 1, H0340: 1, S0476: 1, H0645: 1, S0300: 1, H0411: 1, S0278: 1, H0549: 1, H0431: 1,
--	--	--	--	--

					H0409: 1, H0331: 1, H0574: 1, H0486: 1, S0346: 1, H0421: 1, H0052: 1, H0251: 1, L0032: 1, H0085: 1, H0545: 1, H0457: 1, L0041: 1, H0050: 1, H0024: 1, H0373: 1, S0628: 1, S0250: 1, H0615: 1, H0688: 1, H0039: 1, S0364: 1, H0361: 1, L0455: 1, H0376: 1, H0135: 1, H0090: 1, H0634: 1, T0004: 1, T0042: 1, S0014: 1, H0560: 1, H0625: 1, S0438: 1, H0509: 1, H0646: 1, H0529: 1, L0637: 1, L5575: 1, L0667: 1, L0646: 1, L0764: 1, L0771: 1, L5574: 1, L0774: 1, L0655: 1, L0527: 1, L0657: 1, L0659: 1, L0809: 1, L0789: 1, L0792: 1, L0793: 1, L0663: 1, L0665: 1, S0053: 1, H0520: 1, H0519: 1, S0126: 1, H0711: 1,
--	--	--	--	--	--

							H0690: 1, H0660: 1, S0136: 1, H0522: 1, S0406: 1, H0555: 1, S3012: 1, S0027: 1, S0028: 1, L0743: 1, L0750: 1, L0604: 1, L0361: 1, S0026: 1, H0653: 1, S0192: 1, S0196: 1, H0542: 1, H0423: 1, S0412: 1 and S0424: 1.			
HAZBH84	HAZBH84R	1055	225 - 359	3230			S0003: 154, S0214: 41, H0545: 38, L0651: 34, H0546: 17, L0747: 15, L0757: 14, L0731: 10, L0659: 7, L0776: 6, L0749: 6, H0544: 5, S0122: 5, H0365: 5, L0740: 5, S0360: 4, L0771: 4, L0662: 4, L0768: 4, H0150: 3, H0169: 3, L0750: 3, L0779: 3, H0661: 2, S0376: 2, H0163: 2, S0144: 2, L0764: 2, L0766: 2, L0649: 2, L0775: 2, L0653: 2, L0666: 2, S0126: 2, L0754: 2, L0759: 2, H0171: 1, H0419: 1,			

HAZBI39	HAZBI39R	1056	56 - 424	3231	Ser-29 to Ile-39, Gly-42 to Trp-48, Lys-82 to Val-92.	H0411: 1, H0357: 1, H0486: 1, L0021: 1, H0309: 1, H0231: 1, L0738: 1, H0099: 1, H0364: 1, H0039: 1, S0366: 1, H0038: 1, S0142: 1, S0002: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0646: 1, L0773: 1, L0523: 1, L0655: 1, L0379: 1, L0783: 1, L0663: 1, L0664: 1, L0565: 1, S0008: 1, H0690: 1, S0328: 1, H0696: 1, L0755: 1, L0758: 1, H0595: 1 and H0506: 1.		
						L0758: 3, H0068: 2, L0749: 2, L0756: 2, L0731: 2, S0026: 2, H0136: 2, S0040: 1, L0005: 1, H0351: 1, H0318: 1, H0052: 1, H0530: 1, H0266: 1, S0003: 1, H0412: 1, T0004: 1, T0042: 1, S0422: 1, H0529: 1, H0517: 1, L0762: 1, L0763: 1, L0770: 1,		

							L0769: 1, L0766: 1, L0775: 1, L0809: 1, H0698: 1, H0690: 1, S0390: 1, S0028: 1, L0742: 1, L0748: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0759: 1, S0308: 1, H0542: 1, H0543: 1 and H0423: 1.			
HAZBI69	HAZBI69R	1057	3 - 323	3232		Gly-1 to Pro-6, Lys-58 to Asn-71.				
HBAGS73	HBAGS73R	1058	207 - 371	3233		Pro-15 to Thr-22, Lys-28 to Arg-35.				
HBBBE13	HBBBE13R	1059	2 - 199	3234						
HBCPI58	HBCPI58RA	1060	3 - 245	3235						
HBJAC26	HBJAC26R	1061	267 - 446	3236			L0665: 3, H0318: 2, L0659: 2, S0330: 2, L0439: 2, L0599: 2, H0583: 1, H0038: 1, L0761: 1, L0771: 1, L0387: 1, L0655: 1, L0666: 1, L0779: 1, L0777: 1, L0758: 1 and L0608: 1.			
HBJFS85	HBJFS85R	1062	94 - 261	3237		Asn-30 to Ile-35.				
HBJHY72	HBJHY72RP 00B	1063	1 - 297	3238		Gly-1 to Pro-38, Leu-45 to Gly-64.	AR052: 12, AR055: 8, AR053: 8, AR033: 6, AR089: 6, AR061: 6, AR060: 5, AR096: 3,			

					AR104: 1, AR039: 0 L0794: 5, L0766: 3, L0759: 3, S0212: 2, H0318: 2, L0803: 2, L0804: 2, L0378: 2, L0665: 2, L0438: 2, L0439: 2, L0749: 2, L0591: 2, L0599: 2, L0362: 2, H0686: 1, S0342: 1, S0134: 1, H0656: 1, H0669: 1, S0358: 1, H0370: 1, H0069: 1, S0346: 1, H0251: 1, H0050: 1, H0373: 1, H0266: 1, S0022: 1, L0483: 1, H0553: 1, H0163: 1, H0090: 1, H0116: 1, H0509: 1, S0426: 1, H0529: 1, L0769: 1, L0638: 1, L0646: 1, L0648: 1, L0768: 1, L0381: 1, L0375: 1, L0653: 1, L0659: 1, L0782: 1, L0809: 1, L0793: 1, H0691: 1, H0435: 1, H0659: 1, H0648: 1, S0152: 1, S0390: 1, S0027: 1, S0028: 1, L0777: 1,
--	--	--	--	--	---

									L0731: 1, S0260: 1, L0596: 1, S0192: 1 and S0424: 1.			
HBJMN13	HBJMN13R	1064	145 - 231	3239					Glu-8 to Asn-13, Arg-16 to Thr-29.			
HBXCG52	HBXCG52R	1065	59 - 547	3240					Lys-23 to Lys-32, Ser-72 to Leu-80, Ser-90 to Gly-95, Leu-98 to His-103, Ser-106 to Gly-113, Ile-121 to Phe-128.	S0280: 1 and S0038: 1.		
HBXFO08	HBXFO08R	1066	1 - 126	3241					Leu-2 to Val-10.			
HCAC53	HCAC53RP 00A	1067	145 - 543	3242					His-2 to Glu-28, Ala-37 to Gly-45, His-54 to Pro-62, Glu-69 to Thr-77.			
HCHAJ85	HCHAJ85R	1068	171 - 359	3243					Arg-1 to Arg-6, Phe-27 to Arg-32.			
HCHMM71	HCHMM71R	1069	2 - 322	3244						H0651: 9, L0601: 5, H0559: 4, H0494: 4, L0646: 3, H0484: 2, H0255: 2, S0358: 2, H0550: 2, H0309: 2, H0014: 2, H0188: 2, H0617: 2, H0646: 2, L0769: 2, L0644: 2, L0806: 2, H0689: 2, L0750: 2, L0603: 2, H0624: 1, H0171: 1, H0657: 1, H0663: 1,		

HCHMW20	HCHMW20R	1070	53 - 319	3245	Ser-1 to Thr-8, Glu-17 to Ala-32, Arg-39 to Trp-47.	S0360: 1, H0574: 1, H0257: 1, H0013: 1, H0635: 1, H0098: 1, H0253: 1, H0327: 1, H0545: 1, H0024: 1, H0181: 1, H0359: 1, S0150: 1, L0369: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0661: 1, S0428: 1, H0670: 1, S0328: 1, L0748: 1, L0439: 1, L0758: 1 and H0543: 1.			
HCLBH21	HCLBH21R	1071	3 - 134	3246					
HCNDT49	HCNDT49R	1072	234 - 443	3247	Gln-17 to Pro-27.	L0439: 8, H0052: 7, L0748: 7, S0440: 5, L0758: 5, H0046: 4, H0038: 4, L0769: 4, S0442: 3, H0013: 3, H0253: 3, T0010: 3, L0774: 3, L0776: 3, H0144: 3, H0521: 3, S0404: 3, L0752: 3, L0731: 3, H0656: 2, S0358: 2, S0360: 2, S0222: 2, H0618: 2, H0620: 2, L0351: 2,			

S0422: 2, L0764: 2, L0771: 2, L0783: 2, L0793: 2, H0658: 2, H0666: 2, L0751: 2, L0754: 2, L0745: 2, L0747: 2, L0750: 2, H0624: 1, H0265: 1, H0556: 1, H0686: 1, S0134: 1, S0212: 1, S0001: 1, H0254: 1, H0661: 1, S0354: 1, S0444: 1, S0408: 1, S0300: 1, S0278: 1, H0369: 1, H0370: 1, H0333: 1, H0574: 1, H0486: 1, H0036: 1, H0263: 1, H0597: 1, H0545: 1, H0572: 1, H0024: 1, S0388: 1, S0051: 1, S0250: 1, H0252: 1, H0428: 1, H0039: 1, H0644: 1, L0055: 1, H0674: 1, H0135: 1, H0087: 1, T0067: 1, H0488: 1, H0529: 1, L0763: 1, L0770: 1, L0761: 1, L0374: 1, L0662: 1, L0768: 1, L0766: 1, L0803: 1, L0775: 1,
--

								L0805: 1, L0653: 1, L0526: 1, L5622: 1, L0666: 1, L0664: 1, L0665: 1, S0053: 1, H0547: 1, H0682: 1, H0435: 1, H0670: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, H0696: 1, S0044: 1, S0406: 1, H0631: 1, S3014: 1, S0028: 1, L0742: 1, L0749: 1, L0759: 1, S0436: 1, S0011: 1, S0192: 1, H0542: 1, H0423: 1, S0398: 1 and H0506: 1.			
HCOMA72	HCOMA72R	1073	25 - 273	3248	Arg-1 to Leu-10, Ser-32 to Ala-45, Ala-58 to Gly-68.						
HCOMB04	HCOMB04R	1074	32 - 754	3249	Tyr-3 to Gly-10, Glu-19 to Trp-25.					L0747: 15, L0750: 7, L0731: 7, L0588: 6, L0748: 5, L0439: 5, L0759: 5, H0150: 3, S0144: 3, L0666: 3, L0665: 3, L0752: 3, L0758: 3, L0591: 3, S6024: 2, T0049: 2, S0356: 2, H0674: 2, H0413: 2, S0142: 2,	

L0770: 2, L0769: 2, L0774: 2, L0775: 2, L0657: 2, H0672: 2, S0328: 2, S0378: 2, L0605: 2, L0593: 2, H0624: 1, T0002: 1, H0638: 1, S0418: 1, L0005: 1, S0376: 1, S0444: 1, S0360: 1, H0675: 1, S0045: 1, H0393: 1, S0222: 1, H0441: 1, H0453: 1, H0333: 1, H0574: 1, H0486: 1, H0101: 1, L0021: 1, H0098: 1, T0010: 1, H0083: 1, H0266: 1, H0188: 1, S0003: 1, H0328: 1, H0615: 1, H0428: 1, T0006: 1, H0166: 1, H0598: 1, H0090: 1, H0063: 1, T0069: 1, H0509: 1, H0641: 1, S0002: 1, L0369: 1, L0372: 1, L0662: 1, L0794: 1, L0766: 1, L0803: 1, L0651: 1, L0655: 1, L0379: 1, L0656: 1, L0659: 1, L0782: 1, L0783: 1,					
--	--	--	--	--	--

							L0788: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, S0126: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0522: 1, H0696: 1, L0740: 1, L0751: 1, L0745: 1, L0755: 1, L0757: 1, H0445: 1, H0343: 1, H0595: 1, L0596: 1, L0581: 1, L0599: 1 and S0192: 1.			
HCOMD38	HCOMD38R	1075	3 - 275	3250	Pro-1 to Pro-9, Ile-43 to Lys-48.					
HCOMD61	HCOMD61R	1076	1 - 315	3251						
HCOMF10	HCOMF10R	1077	350 - 622	3252	Asn-10 to Val-16.		L0740: 6, L0666: 2, H0547: 2, L0751: 2, L0777: 2, H0483: 1, S0358: 1, S0444: 1, H0038: 1, L0770: 1, L0768: 1, L0774: 1, L0805: 1, L0658: 1, L0789: 1, H0520: 1, H0659: 1, H0670: 1, L0747: 1, L0779: 1 and L0758: 1.			
HCOMF52	HCOMF52R	1078	2 - 523	3253	Lys-11 to Thr-16, Arg-18 to Glu-24, Arg-31 to Leu-38, Phe-51 to Glu-56.		L0439: 7, L0748: 5, H0255: 4, H0253: 4, H0012: 3, H0620: 3, H0617: 3, L0783: 3.			

				Glu-59 to Glu-67, Thr-102 to Thr-114, Leu-119 to Gln-124.	L0438: 3, H0618: 2, H0046: 2, L0769: 2, L0766: 2, L0532: 2, L0663: 2, H0521: 2, L0750: 2, L0777: 2, L0592: 2, H0543: 2, H0650: 1, S0212: 1, S0001: 1, H0483: 1, H0254: 1, H0638: 1, S0418: 1, S0358: 1, H0580: 1, S0468: 1, H0549: 1, H0559: 1, H0013: 1, S0280: 1, H0318: 1, H0052: 1, H0024: 1, H0252: 1, H0424: 1, H0553: 1, H0644: 1, H0124: 1, H0376: 1, H0135: 1, H0040: 1, H0087: 1, H0488: 1, T0042: 1, H0494: 1, H0509: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0789: 1, L0352: 1, S0126: 1, H0689: 1, H0658: 1, H0670: 1, H0436: 1, H0478: 1, H0626: 1, L0742: 1, L0780: 1, L0731: 1, H0445: 1, L0608: 1,		
--	--	--	--	---	--	--	--

HCOMG28	HCOMG28R	1079	46 - 357	3254	Lys-1 to Arg-8, Asp-20 to Thr-26, Gly-35 to Glu-48, Leu-66 to Arg-72, Phe-83 to Tyr-88.	L0366: 1 and S0276: 1.		
HCOMG40	HCOMG40R	1080	29 - 373	3255	Trp-13 to Asp-19, Cys-29 to Gln-34, Ala-41 to Arg-52, Gly-54 to Gln-59, Arg-69 to Tyr-83.			
HCOMG82	HCOMG82R	1081	233 - 436	3256				
HCOMH70	HCOMH70R	1082	21 - 167	3257	Pro-13 to Pro-22.	H0670: 14, S0360: 9, L0657: 5, L0659: 4, L0809: 4, H0696: 4, L0777: 4, S0356: 3, L0764: 3, L0662: 3, S0374: 3, H0637: 2, H0411: 2, H0486: 2, L0762: 2, L0763: 2, L0521: 2, L0768: 2, L0774: 2, L0805: 2, L0666: 2, L0665: 2, H0659: 2, H0672: 2, H0710: 2, S0406: 2, L0744: 2, L0748: 2, H0686: 1, S0040: 1, H0713: 1, H0657: 1, H0662: 1, S0444: 1, S0408: 1, S0410: 1,		

								H0602: 1, H0643: 1, T0048: 1, H0263: 1, H0596: 1, H0014: 1, H0015: 1, H0594: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0169: 1, H0674: 1, S0450: 1, H0649: 1, L0640: 1, L0646: 1, L0641: 1, L0773: 1, L0648: 1, L0388: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0519: 1, L0530: 1, H0547: 1, H0689: 1, H0435: 1, H0648: 1, S0328: 1, S0330: 1, H0555: 1, H0627: 1, S0390: 1, S0028: 1, L0751: 1, L0779: 1, L0731: 1, S0434: 1, L0581: 1, L0362: 1 and H0667: 1.					
HCOMI30	HCOMI30R	1083	42 - 497	3258									
HCOMI37	HCOMI37R	1084	244 - 618	3259									
HCOML11	HCOML11R	1085	255 - 605	3260	Lys-1 to Gly-10, Pro-13 to Asn-23.								
HCOMM12	HCOMM12R	1086	138 - 338	3261				L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9.					

									L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4, H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2,						
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2, H0529: 2, L0369: 2, L0763: 2, L0770: 2, L0638: 2, L0764: 2, L0771: 2, L0803: 2, L0804: 2, L0375: 2, L0655: 2, L0384: 2, L0809: 2, L0532: 2, S0374: 2, S0126: 2, H0670: 2, H0651: 2, H0521: 2, S0028: 2, L0740: 2, L0485: 2, L0362: 2, L0601: 2, S0192: 2, S0424: 2, L0600: 2, H0556: 1, T0002: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, S0114: 1, S0134: 1, H0650: 1, H0657: 1, L0785: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0483: 1, H0254: 1, H0671: 1, H0662: 1, H0402: 1, H0638: 1,
--

	S0418: 1, S0356: 1, T0007: 1, S0358: 1, S0007: 1, H0208: 1, H0441: 1, H0438: 1, H0587: 1, S0005: 1, L0623: 1, L0477: 1, T0114: 1, S0280: 1, L0021: 1, H0590: 1, H0004: 1, H0618: 1, S0010: 1, H0318: 1, S0049: 1, H0251: 1, H0596: 1, T0110: 1, H0327: 1, H0009: 1, H0123: 1, L0471: 1, H0006: 1, H0014: 1, H0051: 1, S0388: 1, H0510: 1, S0334: 1, H0687: 1, T0023: 1, T0006: 1, H0424: 1, H0182: 1, H0606: 1, H0383: 1, H0165: 1, H0166: 1, S0366: 1, H0135: 1, H0090: 1, T0067: 1, H0488: 1, H0412: 1, T0069: 1, S0112: 1, L0564: 1, H0494: 1, S0015: 1, H0561: 1, L0762: 1, L0640: 1, L0637: 1, L0761: 1, L0667: 1,						
--	--	--	--	--	--	--	--

	L0772: 1, L0373: 1, L0646: 1, L0643: 1, L0374: 1, L0765: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0364: 1, L0533: 1, L0650: 1, L0774: 1, L0376: 1, L0806: 1, L0652: 1, L0653: 1, L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, L0783: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S3014: 1, S0206: 1, L0755: 1, L0758: 1, H0444: 1, L0587: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0361: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1, S0456: 1 and H0506: 1.				
--	---	--	--	--	--

HCOMM55	HCOMM55R	1087	298 - 119	3262	Pro-10 to Leu-20, His-27 to Lys-40.			
HCOMO58	HCOMO58R	1088	1 - 336	3263	Phe-7 to Asp-29, Glu-31 to Lys-38, Thr-46 to Thr-52, Glu-65 to Arg-72.			
HCOMW52	HCOMW52R P00B	1089	3 - 443	3264				
HCOMX77	HCOMX77R	1090	166 - 492	3265				
HCONC18	HCONC18RP 00B	1091	3 - 161	3266				
HCONH28	HCONH28R	1092	76 - 267	3267		L0754: 3, H0624: 2, S0354: 2, H0124: 2, L0766: 2, L0751: 2, L0759: 2, S0116: 1, H0661: 1, H0098: 1, H0597: 1, L0157: 1, S0250: 1, S0003: 1, H0622: 1, H0553: 1, H0509: 1, L0521: 1, L0662: 1, L0768: 1, L0803: 1, L0657: 1, L0659: 1, L0666: 1, L0663: 1, H0144: 1, S0126: 1, H0670: 1, L0779: 1, L0777: 1, L0755: 1, L0589: 1 and L0362: 1.		
HCONK56	HCONK56R	1093	8 - 718	3268				
HCONK75	HCONK75R	1094	33 - 398	3269				

HCONL49	HCONL49R	1095	3 - 221	3270	His-23 to Lys-34, Arg-49 to Leu-57, Pro-59 to Ser-66.			
HCONL59	HCONL59R	1096	255 - 455	3271		L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3,		

									S0250: 3, H0032: 3, H0591: 3, L0598: 3, L0803: 3, L0653: 3, L0657: 3, H0670: 3, S0406: 3, H0555: 3, L0780: 3, L0605: 3, H0667: 3, H0717: 2, T0049: 2, S0212: 2, H0661: 2, S0376: 2, S0007: 2, H0208: 2, S0476: 2, H0645: 2, H0411: 2, H0437: 2, H0550: 2, H0586: 2, H0333: 2, H0599: 2, H0042: 2, H0545: 2, H0123: 2, H0105: 2, H0014: 2, H0051: 2, H0375: 2, L0142: 2, H0598: 2, H0135: 2, H0040: 2, S0372: 2, L0520: 2, L0640: 2, L0769: 2, L5566: 2, L0772: 2, L0646: 2, L0771: 2, L0363: 2, L0768: 2, L0375: 2, L0654: 2, L0776: 2, L0809: 2, L0438: 2, H0547: 2, H0519: 2, L0602: 2, L0743: 2, L0744: 2, L0439: 2,						
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

L0758: 2, L0759: 2, L0588: 2, L0599: 2, L0361: 2, H0716: 1, H0294: 1, S0430: 1, S0298: 1, S0132: 1, H0351: 1, H0369: 1, S0222: 1, H0370: 1, H0392: 1, H0409: 1, H0587: 1, H0574: 1, H0485: 1, T0040: 1, T0060: 1, H0244: 1, L0021: 1, H0003: 1, H0036: 1, H0274: 1, H0253: 1, H0505: 1, H0251: 1, H0544: 1, H0546: 1, H0046: 1, H0081: 1, H0019: 1, T0003: 1, H0057: 1, H0015: 1, H0373: 1, H0275: 1, H0594: 1, S0003: 1, H0039: 1, H0111: 1, H0674: 1, S0364: 1, S0036: 1, H0090: 1, H0063: 1, H0087: 1, H0268: 1, H0412: 1, H0059: 1, H0100: 1, L0564: 1, H0561: 1, S0210: 1, L0369: 1, L3904: 1, L0800: 1, L0641: 1,
--

HCONL67	HCONL67R	1097	389 - 631	3272	Leu-2 to Leu-9.	L0764: 1, L5564: 1, L0804: 1, L0378: 1, L0806: 1, L0807: 1, L0526: 1, L0787: 1, L0788: 1, L0791: 1, L0793: 1, S0374: 1, H0691: 1, T0068: 1, H0690: 1, H0682: 1, H0684: 1, H0658: 1, H0672: 1, H0651: 1, H0518: 1, H0696: 1, S0146: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.		
HCONL67	HCONL67R	1097	389 - 631	3272	Leu-2 to Leu-9.	L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8,		

	H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3, S0250: 3, H0032: 3, H0591: 3, L0598: 3, L0803: 3, L0653: 3, L0657: 3, H0670: 3, S0406: 3, H0555: 3, L0780: 3, L0605: 3, H0667: 3, H0717: 2, T0049: 2, S0212: 2, H0661: 2, S0376: 2, S0007: 2, H0208: 2, S0476: 2, H0645: 2, H0411: 2, H0437: 2, H0550: 2, H0586: 2,						
--	--	--	--	--	--	--	--

	H0333: 2, H0599: 2, H0042: 2, H0545: 2, H0123: 2, H0105: 2, H0014: 2, H0051: 2, H0375: 2, L0142: 2, H0598: 2, H0135: 2, H0040: 2, S0372: 2, L0520: 2, L0640: 2, L0769: 2, L5566: 2, L0772: 2, L0646: 2, L0771: 2, L0363: 2, L0768: 2, L0375: 2, L0654: 2, L0776: 2, L0809: 2, L0438: 2, H0547: 2, H0519: 2, L0602: 2, L0743: 2, L0744: 2, L0439: 2, L0758: 2, L0759: 2, L0588: 2, L0599: 2, L0361: 2, H0716: 1, H0294: 1, S0430: 1, S0298: 1, S0132: 1, H0351: 1, H0369: 1, S0222: 1, H0370: 1, H0392: 1, H0409: 1, H0587: 1, H0574: 1, H0485: 1, T0040: 1, T0060: 1, H0244: 1, L0021: 1, H0003: 1, H0036: 1, H0274: 1,	
--	--	--

				H0253: 1, H0505: 1, H0251: 1, H0544: 1, H0546: 1, H0046: 1, H0081: 1, H0019: 1, T0003: 1, H0057: 1, H0015: 1, H0373: 1, H0275: 1, H0594: 1, S0003: 1, H0039: 1, H0111: 1, H0674: 1, S0364: 1, S0036: 1, H0090: 1, H0063: 1, H0087: 1, H0268: 1, H0412: 1, H0059: 1, H0100: 1, L0564: 1, H0561: 1, S0210: 1, L0369: 1, L3904: 1, L0800: 1, L0641: 1, L0764: 1, L5564: 1, L0804: 1, L0378: 1, L0806: 1, L0807: 1, L0526: 1, L0787: 1, L0788: 1, L0791: 1, L0793: 1, S0374: 1, H0691: 1, T0068: 1, H0690: 1, H0682: 1, H0684: 1, H0658: 1, H0672: 1, H0651: 1, H0518: 1, H0696: 1, S0146: 1, S0037: 1, S3014: 1, S0027: 1,				
--	--	--	--	--	--	--	--	--

								S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.			
HCONN92	HCONN92R	1098	205 - 384	3273							
HCONO17	HCONO17R	1099	1 - 135	3274							
HCONO25	HCONO25R	1100	218 - 610	3275				L0803: 15, L0766: 7, L0748: 6, L0809: 5, L0749: 5, L0804: 4, L0776: 4, L0754: 4, L0752: 4, L0805: 3, L0755: 3, S0438: 2, L0800: 2, L0662: 2, L0740: 2, L0751: 2, L0747: 2, L0750: 2, L0757: 2, L0615: 1, H0556: 1, S0278: 1, T0039: 1, H0318: 1, H0597: 1, H0009: 1, H0510: 1, H0553: 1, H0063: 1, H0509: 1, H0647: 1, S0144: 1, L0763: 1, L0770: 1, L0764: 1, L0768: 1, L0794: 1, L0775: 1, L0653: 1, L0661: 1, L0518: 1, L0790: 1,			

							H0519: 1, H0659: 1, H0670: 1, S0328: 1, H0696: 1, L0439: 1, L0581: 1, S0242: 1 and S0276: 1.			
HCONP44	HCONP44R	1101	3 - 413	3276			Val-1 to Ile-10, Met-32 to Asn-42.			
HCONQ67	HCONQ67R	1102	1 - 669	3277			Gly-7 to Gly-21, Pro-145 to Arg-152, Ala-178 to Lys-183.			
HCONQ71	HCONQ71R	1103	312 - 488	3278						
HCONR31	HCONR31R	1104	3 - 380	3279			Gly-18 to Gln-39, Leu-49 to His-60, Glu-67 to Asp-92.			
HCONU03	HCONU03R	1105	3 - 575	3280						
HCONW62	HCONW62R	1106	1 - 429	3281			Thr-76 to Arg-92, Pro-113 to Ala-118.			
HCONW74	HCONW74R	1107	85 - 234	3282			Pro-15 to Tyr-21.			
HCONW90	HCONW90R	1108	2 - 151	3283			Asn-1 to Pro-10.			
HCONW95	HCONW95R	1109	44 - 457	3284						
HCOOB60	HCOOB60R	1110	101 - 352	3285						
HCOOG32	HCOOG32R	1111	2 - 334	3286						
HCOOG37	HCOOG37R	1112	3 - 482	3287						
HCOOH93	HCOOH93R	1113	1 - 426	3288						
HCOOI71	HCOOI71R	1114	1 - 354	3289			Ala-15 to Gln-25, Gly-42 to Asp-51, Gln-82 to Lys-87, Lys-113 to Lys-118.			
HCOOI79	HCOOI79R	1115	209 - 625	3290						

HCOOM18	HCOOM18R	1116	2 - 694	3291	Lys-71 to Glu-76, Ala-95 to Asp-100, Asp-113 to Ser-134.		
HCOOM73	HCOOM73R	1117	2 - 661	3292	Leu-33 to Lys-39.	H0012: 5, H0620: 4, H0622: 4, L0803: 4, H0670: 4, L0751: 4, L0770: 3, S6024: 2, S0222: 2, L0791: 2, L0731: 2, H0549: 1, H0438: 1, T0023: 1, H0477: 1, H0647: 1, L0648: 1, L0774: 1, L0659: 1, L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0648: 1, H0651: 1, S0380: 1, L0748: 1, L0439: 1, L0756: 1, L0779: 1 and L0755: 1.	
HCOOQ46	HCOOQ46R	1118	2 - 166	3293			
HCOOS39	HCOOS39R	1119	2 - 229	3294			
HCOOT43	HCOOT43R	1120	2 - 439	3295		L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5,	

L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4, H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2, H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2,						
--	--	--	--	--	--	--

	H0529: 2, L0369: 2, L0763: 2, L0770: 2, L0638: 2, L0764: 2, L0771: 2, L0803: 2, L0804: 2, L0375: 2, L0655: 2, L0384: 2, L0809: 2, L0532: 2, S0374: 2, S0126: 2, H0670: 2, H0651: 2, H0521: 2, S0028: 2, L0740: 2, L0485: 2, L0362: 2, L0601: 2, S0192: 2, S0424: 2, L0600: 2, H0556: 1, T0002: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, S0114: 1, S0134: 1, H0650: 1, H0657: 1, L0785: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0483: 1, H0254: 1, H0671: 1, H0662: 1, H0402: 1, H0638: 1, S0418: 1, S0356: 1, T0007: 1, S0358: 1, S0007: 1, H0208: 1, H0441: 1, H0438: 1, H0587: 1, S0005: 1, L0623: 1, L0477: 1,					
--	--	--	--	--	--	--

					T0114: 1, S0280: 1, L0021: 1, H0590: 1, H0004: 1, H0618: 1, S0010: 1, H0318: 1, S0049: 1, H0251: 1, H0596: 1, T0110: 1, H0327: 1, H0009: 1, H0123: 1, L0471: 1, H0006: 1, H0014: 1, H0051: 1, S0388: 1, H0510: 1, S0334: 1, H0687: 1, T0023: 1, T0006: 1, H0424: 1, H0182: 1, H0606: 1, H0383: 1, H0165: 1, H0166: 1, S0366: 1, H0135: 1, H0090: 1, T0067: 1, H0488: 1, H0412: 1, T0069: 1, S0112: 1, L0564: 1, H0494: 1, S0015: 1, H0561: 1, L0762: 1, L0640: 1, L0637: 1, L0761: 1, L0667: 1, L0772: 1, L0373: 1, L0646: 1, L0643: 1, L0374: 1, L0765: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0364: 1, L0533: 1,
--	--	--	--	--	--

HCOOT68	HCOOT68R	1121	147 - 488	3296	Arg-13 to Val-20.	L0650: 1, L0774: 1, L0376: 1, L0806: 1, L0652: 1, L0653: 1, L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, L0783: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S3014: 1, S0206: 1, L0755: 1, L0758: 1, H0444: 1, L0587: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0361: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1, S0456: 1 and H0506: 1. L0748: 20, H0251: 11, L0771: 11, L0740: 11, L0731: 11, L0757: 11, L0752: 10, S0126: 8, H0144: 7, L0596: 6, H0013: 5, L0665: 5.		
---------	----------	------	-----------	------	-------------------	--	--	--

L0747: 5, H0542: 5, H0423: 5, H0624: 4, T0002: 4, H0486: 4, H0031: 4, H0169: 4, H0616: 4, L0770: 4, L0776: 4, L0666: 4, S0152: 4, L0754: 4, H0657: 3, H0663: 3, S0418: 3, S0358: 3, S0360: 3, H0038: 3, L0764: 3, L0648: 3, L0775: 3, L0655: 3, L0749: 3, L0750: 3, L0755: 3, S0026: 3, H0422: 3, H0170: 2, H0171: 2, H0341: 2, H0402: 2, H0638: 2, S0045: 2, S0046: 2, H0156: 2, S0182: 2, H0318: 2, L0471: 2, S0003: 2, H0168: 2, H0674: 2, H0090: 2, H0063: 2, H0412: 2, H0413: 2, H0100: 2, S0440: 2, L0769: 2, L0372: 2, L0662: 2, L0659: 2, H0547: 2, H0659: 2, S0328: 2, S0380: 2, H0521: 2, L0756: 2, L0758: 2,
--

L0759: 2, H0445: 2, L0605: 2, L0604: 2, L0595: 2, L0362: 2, S0194: 2, H0543: 2, S0040: 1, S0134: 1, H0583: 1, H0656: 1, S0116: 1, H0484: 1, H0177: 1, S0420: 1, L0005: 1, S0354: 1, S0408: 1, L0717: 1, H0369: 1, H0550: 1, S0222: 1, H0574: 1, H0632: 1, T0060: 1, H0250: 1, H0108: 1, H0575: 1, H0037: 1, T0048: 1, H0309: 1, H0596: 1, T0115: 1, H0597: 1, H0327: 1, H0046: 1, S0051: 1, H0083: 1, H0061: 1, S6028: 1, H0288: 1, H0292: 1, H0039: 1, H0553: 1, H0644: 1, H0111: 1, H0032: 1, H0383: 1, H0316: 1, H0598: 1, H0087: 1, H0059: 1, T0042: 1, H0560: 1, S0438: 1, H0509: 1, H0132: 1, H0641: 1, H0633: 1,
--

								S0210: 1, H0529: 1, L0520: 1, L0763: 1, L0637: 1, L0800: 1, L0765: 1, L0773: 1, L0521: 1, L0768: 1, L0364: 1, L0766: 1, L0806: 1, L0653: 1, L0657: 1, L0518: 1, L0783: 1, L0383: 1, L0663: 1, L0664: 1, H0593: 1, H0689: 1, H0682: 1, H0670: 1, H0666: 1, H0648: 1, H0672: 1, L0355: 1, H0522: 1, S0013: 1, H0696: 1, H0134: 1, H0214: 1, S0406: 1, L0609: 1, S3014: 1, S0206: 1, L0744: 1, L0751: 1, H0343: 1, L0591: 1, L0601: 1, S0242: 1, L0697: 1, S0424: 1 and S0446: 1.			
HCOOU56	HCOOU56R	1122	3 - 257	3297							
HCOOW72	HCOOW72R	1123	58 - 534	3298	Ala-20 to Asp-25, Asp-38 to Ser-59, Asn-103 to Glu-109, Pro-111 to Ser-119.						
HCOOX01	HCOOX01R A	1124	153 - 311	3299							

HCOOX07	HCOOX07R	1125	236 - 367	3300	His-15 to Gly-29.	L0751: 14, L0659: 11, H0695: 10, L0666: 10, L0757: 9, L0743: 8, L0779: 8, H0581: 6, L0769: 6, L0748: 6, L0758: 6, H0556: 5, H0402: 5, S0360: 5, H0014: 5, H0271: 5, L0761: 5, L0667: 5, L0774: 5, L0653: 5, S0406: 5, H0436: 5, S0358: 4, S0132: 4, L0763: 4, L0776: 4, L0809: 4, L0664: 4, S0126: 4, L0731: 4, S0280: 3, H0150: 3, H0687: 3, L0662: 3, L0775: 3, L0375: 3, H0670: 3, L0749: 3, S0434: 3, H0295: 2, H0650: 2, S0408: 2, H0580: 2, H0411: 2, H0586: 2, H0559: 2, H0545: 2, H0050: 2, S0051: 2, H0083: 2, H0416: 2, H0688: 2, H0617: 2, H0063: 2, H0551: 2, S0344: 2, L0643: 2, L0764: 2, L0766: 2, L0649: 2,		
---------	----------	------	-----------	------	-------------------	--	--	--

L0806: 2, L0657: 2, L0647: 2, L0793: 2, L0665: 2, S0428: 2, S0332: 2, L0747: 2, L0752: 2, H0624: 1, H0171: 1, H0265: 1, H0159: 1, H0713: 1, S0218: 1, H0656: 1, S0116: 1, H0483: 1, H0663: 1, H0638: 1, S0356: 1, S0444: 1, H0339: 1, S0046: 1, S0476: 1, S0278: 1, S6022: 1, H0550: 1, S0414: 1, L0622: 1, H0486: 1, H0635: 1, H0427: 1, H0156: 1, H0599: 1, H0052: 1, H0309: 1, H0597: 1, H0546: 1, L0041: 1, H0123: 1, H0510: 1, H0188: 1, T0006: 1, L0055: 1, H0673: 1, H0674: 1, H0708: 1, H0316: 1, H0634: 1, H0087: 1, H0059: 1, S0352: 1, S0448: 1, S0306: 1, L0640: 1, L0371: 1, L0770: 1, L0638: 1, L5565: 1,					
--	--	--	--	--	--

							L0646: 1, L0642: 1, L0645: 1, L0771: 1, L0773: 1, L0648: 1, L0794: 1, L0805: 1, L0652: 1, L0661: 1, L0493: 1, L0635: 1, L0384: 1, L0788: 1, L0663: 1, S0052: 1, S0216: 1, S0374: 1, T0068: 1, H0689: 1, H0682: 1, H0659: 1, H0666: 1, H0672: 1, S0330: 1, H0539: 1, H0710: 1, H0521: 1, H0522: 1, H0696: 1, S0190: 1, S0404: 1, H0555: 1, L0744: 1, L0740: 1, L0756: 1, L0777: 1, L0759: 1, S0031: 1, H0595: 1, L0581: 1, L0361: 1 and S0194: 1.			
HCOOX48	HCOOX48R	1126	203 - 349	3301	Leu-13 to Gly-21, Ser-27 to Ser-42.					
HCOOY43	HCOOY43R	1127	1 - 315	3302	Asn-67 to Arg-73, Thr-96 to Gly-102.					
HCOPA60	HCOPA60RA	1128	3 - 446	3303	Ala-1 to Leu-7, Gly-14 to Arg-19, Tyr-34 to Asp-41.	L0748: 4, L0747: 4, L0779: 4, H0620: 3, L0770: 3, L0774: 3, L0622: 2, S0280: 2,				